

GenCore version 5.1.3
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OM protein - protein search, using SW model

Run on: January 6, 2003, 20:58:58 ; Search time 21 Seconds
(without alignments)
375.493 Million cell updates/sec

Title: US-09-674-235-1
Perfect score: 1406
Sequence: 1 MAFELLISQVGLGRFQMLH.....KKIKRKHKDCYTKVTKF 268

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:
1: /cgnt_2_6/prodata/2/iaa/5A_COMB.pep.*
2: /cgnt_2_6/prodata/2/iaa/5B_COMB.pep.*
3: /cgnt_2_6/prodata/2/iaa/6A_COMB.pep.*
4: /cgnt_2_6/prodata/2/iaa/6B_COMB.pep.*
5: /cgnt_2_6/prodata/2/iaa/6C_COMB.pep.*
6: /cgnt_2_6/prodata/2/iaa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	458.5	32.6	550	US-09-330-245A-2	Sequence 2, Appli
2	436.5	31.0	545	US-09-572-147-2	Sequence 2, Appli
3	367.5	26.1	537	US-08-647-397-2	Sequence 2, Appli
4	169.5	12.1	556	US-08-501-572-1	Sequence 1, Appli
5	169.5	12.1	556	US-09-040-444-1	Sequence 1, Appli
6	152.5	10.8	555	US-08-501-572-3	Sequence 3, Appli
7	152.5	10.8	555	US-09-040-444-3	Sequence 3, Appli
8	146	10.4	553	US-08-501-572-2	Sequence 2, Appli
9	146	10.4	553	US-09-040-444-2	Sequence 2, Appli
10	104	7.4	520	US-08-964-127-2	Sequence 2, Appli
11	104	7.4	520	US-09-496-692-2	Sequence 12, Appli
12	100	7.1	524	US-08-928-692-12	Sequence 12, Appli
13	100	7.1	524	US-09-339-972-12	Sequence 4, Appli
14	98.5	7.0	286	US-08-964-127-4	Sequence 4, Appli
15	98.5	7.0	286	US-09-496-692-4	Sequence 7, Appli
16	87	6.2	581	US-08-989-386-7	Sequence 5, Appli
17	83.5	5.9	494	US-09-031-392-5	Sequence 5, Appli
18	83.5	5.9	494	US-09-299-548-5	Sequence 5, Appli
19	83.5	5.9	494	US-09-610-417-5	Sequence 3, Appli
20	82	5.8	492	US-08-355-844-3	Sequence 3, Appli
21	82	5.8	492	PCT-US95-16126-3	Sequence 24, Appli
22	81.5	5.8	523	US-09-291-922-24	Sequence 5, Appli
23	80.5	5.7	325	US-09-055-097-5	Sequence 2, Appli
24	80.5	5.7	325	US-08-075-193-2	Sequence 2, Appli
25	80.5	5.7	521	US-08-564-090A-2	Sequence 2, Appli
26	80.5	5.7	521	PCT-US94-06698-2	Sequence 2, Appli
27	80.5	5.7	1308	US-08-996-644-2	Sequence 2, Appli

28	80.5	5.7	1308	US-09-352-552-2	Sequence 2, Appli
29	80	5.7	1024	US-09-562-737-89	Sequence 12, Appli
30	79	5.6	285	US-09-187-050-12	Sequence 8, Appli
31	79	5.6	393	US-09-187-050-2	Sequence 2, Appli
32	79	5.6	393	US-09-187-050-14	Sequence 14, Appli
33	79	5.6	393	US-09-187-050-16	Sequence 16, Appli
34	79	5.6	393	US-09-187-050-18	Sequence 18, Appli
35	79	5.6	393	US-09-187-050-20	Sequence 20, Appli
36	79	5.6	393	US-09-187-050-22	Sequence 22, Appli
37	79	5.6	393	US-09-187-050-24	Sequence 24, Appli
38	79	5.6	393	US-09-187-050-26	Sequence 26, Appli
39	79	5.6	393	US-09-187-050-27	Sequence 27, Appli
40	79	5.6	393	US-09-187-050-28	Sequence 28, Appli
41	79	5.6	393	US-09-187-050-29	Sequence 29, Appli
42	79	5.6	393	US-09-187-050-30	Sequence 30, Appli
43	79	5.6	393	US-09-187-050-31	Sequence 31, Appli
44	79	5.6	393	US-09-187-050-32	Sequence 32, Appli
45	79	5.6	393	US-09-187-050-33	Sequence 33, Appli

ALIGNMENTS

RESULT 1
US-09-330-245A-2
Sequence 2, Application US/09330245A
Patent No. 6432631
GENERAL INFORMATION:
APPLICANT: GILEAD SCIENCES, INC. et al.
TITLE OF INVENTION: NOVEL GENE ENCODING ORGANIC ANION TRANSPORTER
FILE REFERENCE: 240.1PChew
CURRENT APPLICATION NUMBER: US/09/330,245A
PRIOR FILING DATE: 1999-06-10
PRIOR APPLICATION NUMBER: 60/088,864
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/132,267
PRIOR FILING DATE: 1999-05-03
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 550
TYPE: PRT
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: Description of Unknown Organism: This information is not available.
US-09-330-245A-2

Query Match	32.6%	Score	458.5	DB	4	Length	550
Best Local Similarity	29.2%	Pred. No.	4.5e-44				
Matches	104	Conservative	51	Mismatches	82	Indels	119
						Gaps	5
QY	1	MAFELLISQVGLGRFQMLHVFLLPSMLLPHILENFAAIPGRCVWMLDNTGS	60				
DB	1	MAWDLQVGGVGRFOIQVTLVPLMLASHTLONFTALPTHC-----RPPAD	54				
QY	61	GNFTGISDALRISIPIDSNLPEKCRFPVHPOMOLHNGHTHSSEADTEPCVGM	120				
DB	55	AN-----LSKKGGLVWLPDRQGPESCLFTSPQWGLPFLNGT-EANGGATEPCTDGM	109				
QY	121	VYDOSYFSTITVTKMDLVCDYQSLKSVQFLLTGMVGGIIGHVSFR-----	169				
DB	110	IYDSTPSTIVTEWDLVCHRALRLQLAQSLYMWGLGAVFGYLABRLGRKRLILNY	169				
QY	170	-----WT-----	171				
DB	170	LQTVSGTCAAFNPFLYCAFRILSGMALAGISLNCWTLNEMWPIHTPACVGTIGV	229				
QY	172	-----VSARPLITTKLDEGLKLR	192				
DB	230	YSLQGFLLAGVAVPWHRLQLVSAFFFAFYTSWFFTSARWSSSGRLDTLRALQ	289				
QY	193	KVARTNGIKNAEELTNEFVASTQOEIDAQTKTVCDLFRNPMRRKICITVEL	248				

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/08/501,572
APPLICATION NUMBER: US/08/501,572
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Noohy, Kimberlin M
REGISTRATION NUMBER: 35,391
REFERENCE/DOCKET NUMBER: 02481.1453-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)408-4000
TELEFAX: (202)408-4400
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 556 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-501-572-1

Query Match 12.1%; Score 169.5; DB 3; Length 556;
Best Local Similarity 20.5%; Pred. No. 8.9e-11;
Matches 77; Conservative 47; Mismatches 95; Indels 157; Gaps 15;

4 EELLISVGGIGRFO--MHLVFLIPSLMLIPHLLENFAAIPGRHC-----49
5 DVLAEVGEFGWFQKQAFLLCLISASLAPIYGVIFLGF--PGHYCONPGVAELSQR 61
62 CGMSQAEELNYTVPGIGPDEASFLSQ--CMRYEV--DMNGSTLDC--VDP-----LS 108
103 GTIHSTSEADTEPCVGVWYDOSYFPTITVKMDLVCDYQSLKSVQVFLTLTGMVGGII 162
109 SLVNRSQLPLGPEHGWYDTP--GSSITFENLVCGDAMKVDLFQSCVNIGFLGSLV 166
163 GHVSDR-----169
167 VGIADRFGRKCLLVTLTVSVSGVLTAVADYTSMLFRLLQGVSKGWSGYTLIT 226
170 -----WLV-ES 174
227 EFVGSYRRTAILYQMAFTYGLVGLAGVAYAIIDMRLQLAVSLPTFLFLYYWFPES 286
175 ARMLITNKLDEGLAKRKVARTNG-INKAETINIEVRSSTMOEELDAQTKT-TVCDL 232
287 PRMLLSQKRTTRAVRIMEQIAQKNGKVPAD-----LKNLCLEE-DASEKSPSPADL 338
233 FRNPSMRKRICLIVFL 248
339 FRTPNLRKHTVIMYL 354

RESULT 5
US-09-040-444-1
Sequence 1. Application US/09040444
Patent No. 6063766
GENERAL INFORMATION:
APPLICANT: Koepsell, Hermann
APPLICANT: Grudeman, Dirk
TITLE OF INVENTION: Transport Of Cationic Xenobiotics And/or Pharmaceuticals.
TITLE OF INVENTION: Transport Of Cationic Xenobiotics And/or Pharmaceuticals.
TITLE OF INVENTION: DNA Sequences Encoding It And Their Use.
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.
STREET: 1300 I Street, N.W., Suite 700
CITY: Washington

STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/09/040,444
APPLICATION NUMBER: US/09/040,444
FILING DATE: March 18, 1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: O'Connor, Steven P
REGISTRATION NUMBER: 41,225
REFERENCE/DOCKET NUMBER: 2481.1453-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)408-4000
TELEFAX: (202)408-4400
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 556 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-040-444-1

Query Match 12.1%; Score 169.5; DB 3; Length 556;
Best Local Similarity 20.5%; Pred. No. 8.9e-11;
Matches 77; Conservative 47; Mismatches 95; Indels 157; Gaps 15;

4 EELLISVGGIGRFO--MHLVFLIPSLMLIPHLLENFAAIPGRHC-----49
5 DVLAEVGEFGWFQKQAFLLCLISASLAPIYGVIFLGF--PGHYCONPGVAELSQR 61
62 CGMSQAEELNYTVPGIGPDEASFLSQ--CMRYEV--DMNGSTLDC--VDP-----LS 108
103 GTIHSTSEADTEPCVGVWYDOSYFPTITVKMDLVCDYQSLKSVQVFLTLTGMVGGII 162
109 SLVNRSQLPLGPEHGWYDTP--GSSITFENLVCGDAMKVDLFQSCVNIGFLGSLV 166
163 GHVSDR-----169
167 VGIADRFGRKCLLVTLTVSVSGVLTAVADYTSMLFRLLQGVSKGWSGYTLIT 226
170 -----WLV-ES 174
227 EFVGSYRRTAILYQMAFTYGLVGLAGVAYAIIDMRLQLAVSLPTFLFLYYWFPES 286
175 ARMLITNKLDEGLAKRKVARTNG-INKAETINIEVRSSTMOEELDAQTKT-TVCDL 232
287 PRMLLSQKRTTRAVRIMEQIAQKNGKVPAD-----LKNLCLEE-DASEKSPSPADL 338
233 FRNPSMRKRICLIVFL 248
339 FRTPNLRKHTVIMYL 354

RESULT 6
US-08-501-572-3
Sequence 3. Application US/08501572
Patent No. 6063623
GENERAL INFORMATION:
APPLICANT: Koepsell, Hermann
APPLICANT: Grudeman, Dirk
TITLE OF INVENTION: Transport Of Cationic Xenobiotics And/or Pharmaceuticals.
TITLE OF INVENTION: Transport Of Cationic Xenobiotics And/or Pharmaceuticals.
TITLE OF INVENTION: DNA Sequences Encoding It And Their Use.
NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett & Dunner
STREET: 1300 I Street, N.W., Suite 700
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/501,572
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Toohey, Kimberlin M
REGISTRATION NUMBER: 35,391
REFERENCE/DOCKET NUMBER: 02481.1453-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)408-4000
TELEFAX: (202)408-4400
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 555 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-501-572-3

[illegible]

```

RESULT 7
US-09-040-444-3
; Sequence 3, Application US/09040444
; Patent No. 6063766
; GENERAL INFORMATION:
; APPLICANT: Koepsell, Hermann
; APPLICANT: Grundeman, Dirk
; APPLICANT: Gorboulev, Valentin
; TITLE OF INVENTION: Transport protein which Effects The
; TITLE OF INVENTION: Transport Of Cationic Xenobiotics and/or Pharmaceuticals,
; TITLE OF INVENTION: DNA Sequences Encoding It And Their Use
; NUMBER OF SEQUENCES: 5

```

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan,Henderson,Farabow,Garrett
ADDRESS: 1300 I Street, N.W., Suite 700
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/040,444
FILING DATE: March 18, 1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: O'Connor, Steven P
REGISTRATION NUMBER: 41,225
REFERENCE/DOCKET NUMBER: 2481.1453-01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 555 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-040-444-3

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Query Match          10.8%;      Score 152.5;  DB 3;      Length 555;
Best Local Similarity 19.8%;      Pred. No. 8e-09;
Matches              71;      Conservative 40;      Mismatches 109;      Indels 139;      Gaps 12;

QY  11  GGLGRFQMLHLVFILSLMLLIPHILLE-NFAAAIPGHRC---VWHMLDNNTGSGNETGI 66
Db    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
12  GGEFHFPQMFLLALLSATFAPYVGVVFLGFTTDCRCRSPGVAELSLRCG-          64
QY    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
67  LSEDALLRISIP---LDSNLRPEKRRFVHPQQLHLNGTHITSEADTE-----PC 116
Db    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
65  WSPAEELNVTVPGPAGEASPRQCERY-EVDNOSTFD-CVDPLASLDITNRSRLPLGFC 122
QY    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
117  VDGWYVDQSYFPSTIVTKDWLVCYQSLKSVVQFLLLTGMLVGGIIGGHVSDR----- 169
Db    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
123  RDGWYIETP--GSSIVTEFNLVCANSMWMLDLFQSSVNVGFFIGSNGIYADRFGKLCCL 180
QY    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
170  -----WLW-----172
Db    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
181  LTTVLINAAAGVLMASPTYTWMWLI FRLIQGLVSKAGWLIGYILITEFVGGRYRTVGIF 240
QY    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
173  -----ESARLLITNKLDEGL 188
Db    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
241  YQVAYTVGLLVLAGVAYALPHWKLQFTVALPNFFFLYYWCIPESPRLLISQNKQAEAM 300
QY    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
189  KALKRKVARTNGIKNAEETLNIEVVRSTMQBELDAAOTKTTVCDFLFRNPSMRKICILVF 247
Db    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
301  RIYKHAKNG-----KSLFASLQRLRLBEE-TGKLNLSFLDLVTRTPQIRKHTMLMY 353

RESULT 8
US-08-501-572-2
; Sequence 2, Application US/08501572
; Patent No. 6063623
; GENERAL INFORMATION:
; APPLICANT: Koepsell, Hermann
; APPLICANT: Grundeman, Dirk
; APPLICANT: Gorboulev, Valentin
; TITLE OF INVENTION: Transport protein which effects the
; TITLE OF INVENTION: Transport Of Cationic Xenobiotics and/or Pharmaceuticals,
; TITLE OF INVENTION: DNA Sequences Encoding It And Their Use.
; NUMBER OF SEQUENCES: 6

```

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RESULT 8
US-08-501-572-2
; Sequence 2, Application US/08501572
; Patent No. 6063623
; GENERAL INFORMATION:
; APPLICANT: Koepsell, Hermann
; APPLICANT: Grundeman, Dirk
; APPLICANT: Gorboulev, Valentin
; TITLE OF INVENTION: Transport protein which effects the
; TITLE OF INVENTION: Transport Of Cationic Xenobiotics and
; TITLE OF INVENTION: DNA Sequences Encoding It And Their Use.
; NUMBER OF SEQUENCES: 6

```

Tue Jan 7 08:48:12 2003

us-09-674-235-1.rat

Page 5

CORRESPONDENCE ADDRESS:

ADDRESSEE: Finegan, Henderson, Farabow, Garrett & Dunner

STREET: 1300 I Street, N.W., Suite 700

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20005-3315

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/501,572

FILING DATE:

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: Toohey, Kimberlin M

REGISTRATION NUMBER: 35,391

REFERENCE/DOCKET NUMBER: 02481.1453-00000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)408-4400

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 553 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-501-572-2

Query Match 10.4%; Score 146; DB 3; Length 553;
Best Local Similarity 20.4%; Pred. No. 4,5e-08;
Matches 75; Conservative 34; Mismatches 117; Indels 142; Gaps 11;

QY 4 ELLSQVGGGRFQMLHLVFLPSIMLLIPHLLNFPAALPGHRC---WYMLDNNNGS 60
DB 5 DDLEQVGGSGWFKQAFILICLSAFAFICVIGVFLGFTPHHCQSPGVABLSORCG- 63
QY 61 GNETHILSEDALEIRISIPDSNLRPE-----KCRPFVHQWOLHLN-----GTIHST 108
DB 64 -----WSPAEELNYTVP---GLGPAGEAFLGQCRRY-EVDNQSALSCVDPPLASLATNR 113
QY 109 SEADTEPCVDGWNVQOSYFPSTIVTKMDLVCDYQSLKSVVQFLITGMVGGIIGHVSD 168
DB 114 SHLPGLPCQDGWVDTLP--GSSIVTEFNLVCADSWKLDLFQSCINAGFFPGLGVGFAD 171
QY 169 R----- 169
DB 172 RFGKRLCLLGTVLVNAVSGVLMAFSPNYSMLLFRLLQGLVSKGNMAGYTLITEFVSSG 231
QY 170 -----WLY-ESARMLII 180
DB 232 SRRVTAIMQMAFTVGVALTGLAYALPHRMQLAVSLPTFLFLYVCVESPRLMS 291
QY 181 TNKLDGKALKRKVARTNGIKNAEETLINEVVRSTWQEBLDAQRTTVCDFRNPSNRK 240
DB 292 QKRNTEAIKIMDHIAQKNG-KLPPADLKMLSLBEDYTEKL-----SPSPADLFRTPRLRK 345
QY 241 RICTIVFL 248
DB 346 RTFILMYL 353

RESULT 9
US-09-040-444-2
Sequence 2, Application US/09040444

PATENT INFORMATION:
GENERAL INFORMATION:
APPLICANT: Koepsell, Hermann
APPLICANT: Grundeman, Dirk
APPLICANT: Gordoulev, Valentin

TITLE OF INVENTION: Transport Protein Which Effects The
TITLE OF INVENTION: Transport of Cationic Xenobiotics and/or Pharmaceuticals,
TITLE OF INVENTION: DNA Sequences Encoding It And Their Use.

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSEE: Finegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

STREET: 1300 I Street, N.W., Suite 700

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20005-3315

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/040,444

FILING DATE: March 18, 1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: O'Connor, Steven P

REGISTRATION NUMBER: 41,225

REFERENCE/DOCKET NUMBER: 2481.1453-01

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)408-4400

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 553 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-09-040-444-2

Query Match 10.4%; Score 146; DB 3; Length 553;
Best Local Similarity 20.4%; Pred. No. 4,5e-08;
Matches 75; Conservative 34; Mismatches 117; Indels 142; Gaps 11;

QY 4 ELLSQVGGGRFQMLHLVFLPSIMLLIPHLLNFPAALPGHRC---WYMLDNNNGS 60
DB 5 DDLEQVGGSGWFKQAFILICLSAFAFICVIGVFLGFTPHHCQSPGVABLSORCG- 63
QY 61 GNETHILSEDALEIRISIPDSNLRPE-----KCRPFVHQWOLHLN-----GTIHST 108
DB 64 -----WSPAEELNYTVP---GLGPAGEAFLGQCRRY-EVDNQSALSCVDPPLASLATNR 113
QY 109 SEADTEPCVDGWNVQOSYFPSTIVTKMDLVCDYQSLKSVVQFLITGMVGGIIGHVSD 168
DB 114 SHLPGLPCQDGWVDTLP--GSSIVTEFNLVCADSWKLDLFQSCINAGFFPGLGVGFAD 171
QY 169 R----- 169
DB 172 RFGKRLCLLGTVLVNAVSGVLMAFSPNYSMLLFRLLQGLVSKGNMAGYTLITEFVSSG 231
QY 170 -----WLY-ESARMLII 180
DB 232 SRRVTAIMQMAFTVGVALTGLAYALPHRMQLAVSLPTFLFLYVCVESPRLMS 291
QY 181 TNKLDGKALKRKVARTNGIKNAEETLINEVVRSTWQEBLDAQRTTVCDFRNPSNRK 240
DB 292 QKRNTEAIKIMDHIAQKNG-KLPPADLKMLSLBEDYTEKL-----SPSPADLFRTPRLRK 345
QY 241 RICTIVFL 248
DB 346 RTFILMYL 353

RESULT 10
US-08-964-127-2
Sequence 2, Application US/08964127

PATENT INFORMATION:
GENERAL INFORMATION:
APPLICANT: Koepsell, Hermann
APPLICANT: Grundeman, Dirk
APPLICANT: Gordoulev, Valentin

```

; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/964,127
; FILING DATE: 06-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Crews, Ph.D., L. Lee
; REGISTRATION NUMBER: P-43,567
; REFERENCE/DOCKET NUMBER: 07334/038001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 520 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-08-964-127-2

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Query Match      7.4%; Score 104; DB 4; Length 520;
Best Local Similarity 18.2%; Pred. No. 0.0028;
Matches 64; Conservative 33; Mismatches 92; Indels 162; Gaps 14;

QY 39 NFAAAIPGHCWVHMLDNTSGNETGILSDALLRISIPLDNSLRPEKRRFVHPQWL 98
Db 16 HYGAFFPNASGW-EQPPNAGSVASAAALAAASRAVATSTDPS-----CSGFAPP--- 65
QY 99 LHLNGTIHSTSEADTEPCVGVVD--QSYFPSTIVTKWDLVCD--YQSLKSVVQFL-- 152
Db 66 -----DFNHCLKWDYNGLPVLTNTAIGQWDLVCDLQWQVILEQILFLGFA 112
QY 153 -----LTMGLVGGT----- 161
Db 113 SGYLFGLYPADRGRRGIVLLTLGLVPCGCGAAAGSSTGWMALRFLGLAGVDLGV 172
QY 162 -----IGGH-----VSDRW----- 170
Db 173 YLMRLELCDPTQRLRVALAGELVGVGGHFLGLALVSKDWRFLQRMITAPCILFLFYGW 232
QY 171 ----LVESARWLITNKLDGLKALKRKVARTNGIKNAEETLNIEVVRSTWQELDAQTKT 227
Db 233 PGLFLESARWLIVKQIEAQSVLRLAERN--RPHGQMLG-----EQAQALQDLE 282
QY 228 TVCDL-----FRNPSMRKRICILVFLRKKSIRKRHKNDCTYKV 265
Db 283 NTCPLPATSPFSFASLLNRYN--IWKNLILGFTNFIAHAIRH---CYQPV 328

RESULT 11
US-09-496-692-2
; Sequence 2, Application US/09496692
; Patent No. 6313271

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; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/496,692
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/964,127
; FILING DATE: 06-NOV-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Crews, Ph.D., L. Lee
; REGISTRATION NUMBER: P-43,567
; REFERENCE/DOCKET NUMBER: 07334/038001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 520 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-09-496-692-2

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Query Match      7.4%; Score 104; DB 4; Length 520;
Best Local Similarity 18.2%; Pred. No. 0.0028;
Matches 64; Conservative 33; Mismatches 92; Indels 162; Gaps 14;

QY 39 NFAAAIPGHCWVHMLDNTSGNETGILSDALLRISIPLDNSLRPEKRRFVHPQWL 98
Db 16 HYGAFFPNASGW-EQPPNAGSVASAAALAAASRAVATSTDPS-----CSGFAPP--- 65
QY 99 LHLNGTIHSTSEADTEPCVGVVD--QSYFPSTIVTKWDLVCD--YQSLKSVVQFL-- 152
Db 66 -----DFNHCLKWDYNGLPVLTNTAIGQWDLVCDLQWQVILEQILFLGFA 112
QY 153 -----LTMGLVGGI----- 161
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QY 162 -----IGGH-----VSDRW----- 170
Db 173 YLMRLELCDPTQRLRVALAGELVGVGGHFLGLALVSKDWRFLQRMITAPCILFLFYGW 232
QY 171 ----LVESARWLITNKLDGLKALKRKVARTNGIKNAEETLNIEVVRSTWQELDAQTKT 227
Db 233 PGLFLESARWLIVKQIEAQSVLRLAERN--RPHGQMLG-----EQAQALQDLE 282
QY 228 TVCDL-----FRNPSMRKRICILVFLRKKSIRKRHKNDCTYKV 265
Db 283 NTCPLPATSPFSFASLLNRYN--IWKNLILGFTNFIAHAIRH---CYQPV 328

RESULT 12
US-08-928-692-12
; Sequence 12, Application US/08928692
; Patent No. 5958729

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[illegible]

; APPLICATION NUMBER: 08/964,127
; FILING DATE: 06-NOV-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Crews, Ph.D., L. Lee
; REGISTRATION NUMBER: P-43,567
; REFERENCE/DOCKET NUMBER: 07334/038001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
US-08-964-127-4

Query Match 7.0%; Score 98.5; DB 4; Length 286;
Best Local Similarity 17.8%; Pred. No. 0.0049;
Matches 54; Conservative 29; Mismatches 73; Indels 147; Gaps 11;

QY 39 NFAAAIPGHRWCWVHMLDNTGSGNETGILSEDALLRISIPLDLSNLRPEKCRRFVHPQWQL 98
Db 16 HYGAFPNNASGW-EQPPNAGSVSVASAAASAASRVATSTDPs-----CSGFAPP----- 65

QY 99 LHLNGTIHSTSEADTEPCVDGWYD-QSYFPSTIVTKWDLVCD--YQSLKSVVQFLL--- 152
Db 66 -----DFNHCLKWDYNGLPVLTNTAIGQWDLVCDLQWQVILEQILFILGFA 112

QY 153 -----LTGMLVGGI----- 161
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QY 162 -----IGGH-----VSDRW----- 170
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QY 225 TKT 227
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RESULT 15
US-09-496-692-4
; Sequence 4, Application US/09496692
; Patent No. 6313271
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; TITLE OF INVENTION: MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/496,692
; FILING DATE:
; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/964,127
; FILING DATE: 06-NOV-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Crews, Ph.D., L. Lee
; REGISTRATION NUMBER: P-43,567
; REFERENCE/DOCKET NUMBER: 07334/038001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
US-09-496-692-4

Query Match 7.0%; Score 98.5; DB 4; Length 286;
Best Local Similarity 17.8%; Pred. No. 0.0049;
Matches 54; Conservative 29; Mismatches 73; Indels 147; Gaps 11;

QY 39 NFAAAIPGHRWCWVHMLDNTGSGNETGILSEDALLRISIPLDLSNLRPEKCRRFVHPQWQL 98
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QY 99 LHLNGTIHSTSEADTEPCVDGWYD-QSYFPSTIVTKWDLVCD--YQSLKSVVQFLL--- 152
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QY 153 -----LTGMLVGGI----- 161
Db 113 SGYFLGYPADRFGRGIVLLTLGLVPGCVGGAAGSSTGVMAIRFLFLGFLAGVDLGV 172

QY 162 -----IGGH-----VSDRW----- 170
Db 173 YLMRLCDDPTQRLRVALAGELVGVGGHFLFLGLALVSKDWRFLQRMITAPCILFLFYGW 232

QY 171 ----LVESARWLIITNKLDEGLKALRKA----RTNGIKNAEETLNIEVVRSTMQBELDAAQ 224
Db 233 PGLFLESARWLIIVKQIEEAQSVLRILAERNRPHQMLGEEA-----QEALQDLE 282

QY 225 TKT 227
Db 283 SST 285

Search completed: January 6, 2003, 22:51:39
Job time : 23 secs

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: January 6, 2003, 22:48:58 ; Search time 16 Seconds
(without alignments)
317.438 Million cell updates/sec

Title: US-09-674-235-1
Perfect score: 1406
Sequence: 1 MAFELLISQVGLGRFQWLH.....RKISRKHNDYTKYTKF 268

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 117078 seqs, 18951520 residues

Total number of hits satisfying chosen parameters: 117078

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	ID	Description
1	600	42.7	553	US-10-095-139-5	Sequence 5, Appli
2	592	42.1	550	US-10-095-139-16	Sequence 16, Appli
3	551	39.2	553	US-10-095-139-17	Sequence 17, Appli
4	344	24.5	113	US-09-864-761-42488	Sequence 42488, A
5	216.5	15.4	557	US-09-798-743A-3	Sequence 3, Appli
6	193.5	13.8	557	US-09-798-743A-1	Sequence 1, Appli
7	174	12.4	101	US-10-050-786-8	Sequence 8, Appli
8	160	11.4	44	US-10-095-139-15	Sequence 15, Appli
9	104	7.4	520	US-10-000-273-2	Sequence 2, Appli
10	98.5	7.0	286	US-10-000-273-4	Sequence 4, Appli
11	93	6.6	81	US-09-864-761-46676	Sequence 46676, A
12	90.5	6.4	486	US-10-095-139-7	Sequence 7, Appli
13	90.5	6.4	487	US-10-095-139-14	Sequence 14, Appli
14	90.5	6.4	487	US-09-795-693-27	Sequence 27, Appli
15	90.5	6.4	535	US-09-795-693-20	Sequence 20, Appli
16	90	6.4	537	US-10-155-891-2	Sequence 2, Appli
17	89.5	6.4	488	US-10-094-053-4	Sequence 4, Appli
18	86	6.1	366	US-09-349-015-35	Sequence 35, Appli
19	83.5	5.9	494	US-09-981-947A-5	Sequence 5, Appli

20	83	5.9	406	US-09-925-297-726	Sequence 726, App
21	82.5	5.9	572	US-09-919-781-2	Sequence 2, Appli
22	82	5.8	441	US-09-778-927A-51	Sequence 51, Appli
23	82	5.8	455	US-09-778-927A-50	Sequence 50, Appli
24	82	5.8	471	US-09-778-927A-47	Sequence 47, Appli
25	82	5.8	471	US-09-778-927A-49	Sequence 49, Appli
26	82	5.8	501	US-09-778-927A-48	Sequence 48, Appli
27	81.5	5.8	523	US-10-051-902-24	Sequence 24, Appli
28	81.5	5.8	323	US-10-051-902-24	Sequence 24, Appli
29	80.5	5.7	323	US-09-972-912-3	Sequence 3, Appli
30	80.5	5.7	325	US-09-804-357-10	Sequence 10, Appli
31	80.5	5.7	325	US-09-739-451-5	Sequence 5, Appli
32	80.5	5.7	325	US-09-804-006-10	Sequence 10, Appli
33	80.5	5.7	453	US-09-738-626-477	Sequence 4277, Ap
34	80.5	5.7	453	US-09-815-242-5470	Sequence 5470, Ap
35	79	5.6	664	US-09-815-242-12179	Sequence 12179, A
36	78.5	5.6	476	US-10-155-891-4	Sequence 4, Appli
37	78	5.5	574	US-09-925-502-6	Sequence 6, Appli
38	76.5	5.4	1642	US-09-925-442-35	Sequence 2, Appli
39	76.5	5.4	1648	US-09-925-442-35	Sequence 35, Appli
40	76	5.4	314	US-09-867-550-1240	Sequence 1240, Ap
41	76	5.4	1203	US-09-990-046-2	Sequence 2, Appli
42	75.5	5.4	1203	US-09-909-280A-2	Sequence 2, Appli
43	75.5	5.4	209	US-10-108-915-30	Sequence 30, Appli
44	75.5	5.4	436	US-09-922-501-8	Sequence 8, Appli
45	75	5.3	526	US-10-024-623-30	Sequence 30, Appli

ALIGNMENTS

RESULT 1
US-10-095-139-5
Sequence 5, Application US/10095139
Patient No. US2002016537A1
GENERAL INFORMATION:
APPLICANT: Curtiss, Rory A.J.
APPLICANT: Siles-Santiago, Immaculada
APPLICANT: Millennium Pharmaceuticals, Inc.
TITLE OF INVENTION: 3854, 57301, and 58324, Human Organic
TITLE OF INVENTION: Ion Transporters and Uses Therefor
FILE REFERENCE: MP101-01PIRNM
CURRENT FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US/10/095, 139
PRIOR FILING DATE: 2001-03-12
NUMBER OF SEQ ID NOS: 24
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 5
LENGTH: 553
TYPE: PRT
ORGANISM: homo sapiens
FEATURE:
OTHER INFORMATION: unknown amino acids at 200-202
NAME/KEY: VARIANT
LOCATION: (1) (553)
OTHER INFORMATION: Xaa = Any Amino Acid
US-10-095-139-5
Query Match
Best local similarity 37.8%; Pred. No. 1.5e-53;
Matches 133; Conservative 30; Mismatches 81; Indels 108; Gaps 1;
QY 1 MAFELLISQVGLGRFQWLH.....RKISRKHNDYTKYTKF 268
1 MAFELLISQVGLGRFQWLH.....RKISRKHNDYTKYTKF 268
QY 61 GNETGLISEDALRISIPIDSNLRPEKRRFVAPQWOLHNGTISTSRADPEPCWDG 120
61 ASILGSPSPALLAISPPEPNORPHOCRRFROPQWOLDPNATATSWSEADTEPCWDG 120
QY 121 VYDQSPSTIVTKWLDVVCYQSLXSVVQFLLTGMLVGIGGHVDR----- 169
121 VYDQSPSTIVTKWLDVVCYQSLXSVVQFLLTGMLVGIGGHVDR----- 169

Db 121 VYDRSFTSTIVAKWNLVCDSHALKPMAQSIYLAGILVGAACGPASDRFGRRLVLTWSY 180
QY 170 ----- 169
Db 181 LQMAVMGTAAAFAPAFVYXXRFLAFHAGABPLGLAVMEWTAARPLVMTNLSLG 240
QY 170 -----WLVESARWLIITNKLDGLKALR 192
Db 241 FSPGHGLTAAYAGVRDWTLLQLVSVPPFLCLFLYSWLAESARWLIITNGLDWGLQELW 300
QY 193 KVARTNGIKNAEETLNIEVVRSTMOEELDAAQTKTTCVDFRNPSMRKRICI 244
Db 301 RVAPINGKGAQVDTLTPEVLLSAMRELSMGQPPASIGTLRMEGLFRICI 352

RESULT 2

US-10-095-139-16
; Sequence 16, Application US/10095139
; Patent No. US20020165357A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Roly A.J.
; APPLICANT: Silos-Santiago, Inmaculada
; TITLE OF INVENTION: 3854, 57301, and 58324, Human Organic
; TITLE OF INVENTION: Ion Transporters and Uses Therefor
; FILE REFERENCE: MPI01-017P1RNM
; CURRENT APPLICATION NUMBER: US/10/095,139
; CURRENT FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: 60/275,172
; PRIOR FILING DATE: 2001-03-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 550
; TYPE: PRT
; ORGANISM: homo sapiens
US-10-095-139-16

Query Match 42.1%; Score 592; DB 9; Length 550;
Best Local Similarity 40.2%; Pred. No. 9.6e-53;
Matches 143; Conservative 28; Mismatches 69; Indels 116; Gaps 7;

QY 1 MAFEEELLSQVGLGRFQMLH-LVFILPSLMLLIP-HILLENFAAAIPGHRCWVHMLDNT 58
Db 1 MAFKLEQAGGVGLFTQLVLTILFCLM--IFSQMLLENFSAAPGHRCWVHMLDNT 56
QY 59 GSGNETGILSEDALLRISIPDSNLRPEKRRFVHPQWQLHLNGTIHSTSEADTEPCVD 118
Db 57 GSAVSTN-MTPKALLTISIPPGNQGHQCRFPQWQLLDNFNATATSWSEADTEPCVD 115
QY 119 GWVYDOSYFPSTIVTKWDLVCDYQSLKSVVQFLLLTGMLVGGIIGHVSDR 169
Db 116 GWVYDRSVFTTIVAKWDLVCSQGLKPLSQSIFMSGILVGSFIWGLSYRFGKPMLSW 175
QY 170 ----- 169
Db 176 CCLQLAVAGTSTIFATFVYCYGLRFAVAFMGAFILSSITLWVETTTTERRAVTMTVVG 235
QY 170 -----WLVESARWLIITNKLDGLKA 190
Db 236 CAFSAQAALGGLAFALRDWRTIQLAASVFFFAISLISWMLPESARWLIITNKLDGLQAE 295
QY 191 LRKVARTNGIKNAEETLNIEVVRSTMOEELDAAQTKTTCVDFRNPSMRKRICILV 246
Db 296 LRKVARINGHKEA-KNLTIEVLMSVKEEVAEAKPRSDLDLFCVPVLRWSCAML 350

RESULT 3

US-10-095-139-17
; Sequence 17, Application US/10095139
; Patent No. US20020165357A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Roly A.J.

; APPLICANT: Silos-Santiago, Inmaculada
; APPLICANT: Millennium Pharmaceuticals, Inc.
; TITLE OF INVENTION: 3854, 57301, and 58324, Human Organic
; TITLE OF INVENTION: Ion Transporters and Uses Therefor
; FILE REFERENCE: MPI01-017P1RNM
; CURRENT APPLICATION NUMBER: US/10/095,139
; CURRENT FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: 60/275,172
; PRIOR FILING DATE: 2001-03-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-095-139-17

Query Match 39.2%; Score 551; DB 9; Length 553;
Best Local Similarity 34.1%; Pred. No. 1.6e-48;
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QY 170 ----- 169
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Db 301 RVAAVNRKAEQDTLTMEVIRSAMEEPSRDRKAGASLGLTLLHTPGLRHRTII 352

RESULT 4

US-09-864-761-42488
; Sequence 42488, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667

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PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 42488
LENGTH: 113
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC012153.10
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 6
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 7.2
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 5.7
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 7
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 6.1
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 6.9
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.8
OTHER INFORMATION: SWISSPROT HIT: Q920E8, EVALUATE 3.00e-05
OTHER INFORMATION: EST_HUMAN HIT: AV652088.1, EVALUATE 4.00e-32
US-09-664-761-42488
Query Match 24.5%; Score 344; DB 10; Length 113;
Best Local Similarity 59.5%; Pred. No. 3.1e-28;
Matches 66; Conservative 12; Mismatches 33; Indels 0; Gaps 0;
Db 24 ILPSMLIIPHILENFAAIPGHRGCHMLDNTGSGNETGILSEDAALLRISIPDSNL 83
3 LMSVIMWLCTGSMLENFSAVAVSHRCMAPLDNSTAQSILGSLPEALLAISIPGPQ 62
Oy 84 RPEKCRFVHPQWOLHLNGTHTSTSEADTEPCVDGWYDQSYFSTIYTK 134
63 RPHGCRFRFPQWOLLDPNATATSWSEADTEPCVDGWYDRSIFSTIYAK 113
RESULT 5
US-09-798-743A-3
Sequence 3, Application US/09798743A
Patent No. US2002009093A1
GENERAL INFORMATION:
APPLICANT: Nezu, Jun-ichi
TITLE OF INVENTION: SYSTEMIC CARNITINE DEFICIENCY GENE AND USES THEREOF
FILE REFERENCE: 06501-073001
CURRENT FILING DATE: 2001-03-02
PRIOR APPLICATION NUMBER: PCT/JP99/04853
PRIOR FILING DATE: 1999-09-07
PRIOR APPLICATION NUMBER: JP 10-252683
PRIOR FILING DATE: 1998-09-07
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PatentIn Ver. 2.0

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; SEQ ID NO 3
; LENGTH: 557
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-798-743A-3
Query Match 15.4%; Score 216.5; DB 10; Length 557;
Best Local Similarity 23.4%; Pred. No. 3.3e-14;
Matches 91; Conservative 34; Mismatches 89; Indels 175; Gaps 14;
Oy 3 FEEILSQVGGIGRFQMLHVPFLPSMLIIPH-----ILLENFAAIPGHRGCHV-HMUD 55
4 YDEVTAFLEGWGPFO--RIIFPLLSAS--IIPNGNGMSIV---FLAGTPEHCLVPHVTN 57
Oy 56 NNTGSGNETGILSEDAALLRISIPL---DSNLRPEKCRFVHPQWOLHLNGTHTSTSEAD 112
58 LSSAMRNH-----SIPLETQGRQVPOKCRRY-----RLATIANFSELG 96
Oy 113 TEP-----CVDGWYDQSYFSTIYTKMDLVCDVQSLKSVQFILLTGMLVG 159
97 LEPGRVDLEQLQESCLDGMEYDKDVFLLTITVEMDLVCKDWMKAPLTTSIFPVGLMG 156
Oy 160 GITGAVSDR----- 169
157 SFLSQGLSDRFGKRNVLFLTMGQTGFSLQVSNVPEMTVLFLVGMQISNYAAV 216
Oy 170 -----WL 171
217 LGTEILSKSIRIIFATLGVCIFFAAGFMVLPFAFYFIRDMRLALLTVGVLGALMWF 276
Oy 172 V-ESARWLITTKLDGKALKRKVARTNGIKNAEFTINIEVSTW---OELDPAQTKT 227
277 IPESPFWLISQGRKEKEVEVITIRKAAKINGI-----VASTITDPSELQDINSTKP 326
Oy 228 T---VCDLFRNPSMRKRICILVEFLKKIS 253
327 QLHHTYDLIRNIRIVTITMSIILMLTIS 355
RESULT 6
US-09-798-743A-1
Sequence 1, Application US/09798743A
Patent No. US2002009093A1
GENERAL INFORMATION:
APPLICANT: Nezu, Jun-ichi
TITLE OF INVENTION: SYSTEMIC CARNITINE DEFICIENCY GENE AND USES THEREOF
FILE REFERENCE: 06501-073001
CURRENT FILING DATE: 2001-03-02
PRIOR APPLICATION NUMBER: US/09/798,743A
PRIOR FILING DATE: 1999-09-07
PRIOR APPLICATION NUMBER: PCT/JP99/04853
PRIOR FILING DATE: 1999-09-07
PRIOR APPLICATION NUMBER: JP 10-252683
PRIOR FILING DATE: 1998-09-07
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 557
TYPE: PRT
ORGANISM: Homo sapiens
US-09-798-743A-1
Query Match 13.8%; Score 193.5; DB 10; Length 557;
Best Local Similarity 22.0%; Pred. No. 7.6e-12;
Matches 83; Conservative 37; Mismatches 106; Indels 151; Gaps 12;
Oy 3 FEEILSQVGGIGRFQMLHVPFLPSMLIIPH---ILLENFAAIPGHRGCHV-HMUD 58
4 YDEVTAFLEGWGPFO--RIIFPLLSAS--IIPNGFTGSSVFLATPEHRCRVDAANLSS 60
Oy 59 GSGNENGILSEDAALLRISIPL---DSNLRPEKCRRF---VHPQWOLHLN-GTHTSTSEA 111
61 AMRNHT-----VPLRLDGRFVPHSCRRYRLATIANFSAALGEPGRVDLDGQL 108

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QY 99 LHLNGTHTHSSEADTEECVQGVVD-QSPSTIVTKMDLVCDD--YQSLKSVQVQFL-- 152
Db 66 -----D-FNHCKMDYDNGLPVLTITNAIGQMDLVCDLGMVILEQILFLILGFA 112
QY 153 -----L-TGMVYGGI----- 161
Db 113 SGYLFLLGYPADRFGRRGIVLLTGLVGCVGGAAGSSTGVMALEPFLPFLLAGVDLG 172
QY 162 -----IGGH-----VSDRW----- 170
Db 173 YLMRLLECDPQRLRVALAGLVGVGHFLFLGLALVYSKMRFLQRMITAPCLFLFYGM 232
QY 171 --LVESARWLIITNKLDGLKALKRVARTNGIKNAEETLIEVVRSTMOEELDAQTKT 227
Db 233 PGLFLESARWLIIVKQIIEAQSIVRILAEERN--RPHQMGD-----EQAQALQDLE 282
QY 228 TVCDL-----FRNPSMRKRICILVPLRKRTSRGRHKNDCTYK 265
Db 283 NTCPLPATSSSFASLNYRN--IMKNLLIIGFNPFLHAIRH---CYQPV 348

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RESULT 10
US-10-000-273-4
; Sequence 4, Application US/10000273
; Patent No. US20020160386A1
; GENERAL INFORMATION:
; APPLICANT: Grandearl, Andrew David John
; TITLE OF INVENTION: NOVEL GENES ENCODING TRANSPORTER-LIKE
; MOLECULES
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/000,273
; FILING DATE: 02-No. US20020160386A1-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/964,127
; FILING DATE: 06-NOV-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Crews, Ph.D., L. Lee
; REGISTRATION NUMBER: P-43,567
; REFERENCE/DOCKET NUMBER: 07334/038001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 286 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
;
US-10-000-273-4
;
Query Match 7.0%; Score 98.5; DB 9; Length 286;
Best Local Similarity 17.8%; Pred. No. 0.017; Indels 147; Gaps 11;
Matches 54; Conservative 29; Mismatches 73;

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QY	99	LIHLNGTIIHISEADTBECVUDGWYD--QSIFYPSPTIVTKMPLVCD--YQSLSKSVQOIFLL---	152
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Db	66	-----DENHCLKMDYINGLPVLTITNAIGOMDLVCDLGWGVLLLEQILFFITGFA	112
QY	153	-----LTGMVLVGGI-----	161
Db	113	SGVLYLGYPADRFGRGRGIVLLTGLVGPCGGAGAAAGSSITGVNALRFLFLGLLAVDGLGV	172
QY	162	-----IGGH-----VSDRW-----	170
Db	173	YLMLELCDPQRIKRVVALAGELVGVGHFLFTGLALVSKDMRFLQRMITAPCILFLFYGM	232
QY	171	---LVESARWIIITNKLDEGLKAIKRYA---RTNIGIKNAEFTINIEVASTMOEELDPAQ	224
		: : : : : : : : : : : : : : : : : : : :	
Db	233	PGLFTLESARWIIIVKQTEIAEOSVLRIIAERNRPHGQMLGEEA-----OEALQDLE	282
QY	225	TKT 227	
Db	283	SST 285	

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RESULT 11
US-09-864-761-46676
; Sequence 46676, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecm1ca-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117

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; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 46676
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AB026898.1
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1
; OTHER INFORMATION: EST_HUMAN HIT: AV652088.1, EVALU 3.10e-02
; OTHER INFORMATION: SWISSPROT HIT: Q62674, EVALU 6.20e+00
US-09-864-761-46676

Query Match 6.6%; Score 93; DB 10; Length 81;
Best Local Similarity 32.5%; Pred. No. 0.01;
Matches 27; Conservative 11; Mismatches 37; Indels 8; Gaps 2;
QY 47 HRCVWHLNNTSGNETGISEDALRLISIPLDNLPRPKCRFRVHPQWQLHLNGTIH 106
DB 3 HHCVAWVKNHFTN-----LSAAEQVLVSLPDLTAGHPPECLMFRPPANASLQDILSH 56
QY 107 STSEADTEPCVDGWVYDQSFPFS 129
DB 57 RFNE--TQPCDGMGEVPEPNRLPS 77

RESULT 12
US-09-860-232A-7
; Sequence 7, Application US/09860232A
; Patent No. US20020028494A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; TITLE OF INVENTION: 57256 AND 58289, NOVEL HUMAN
; FILE REFERENCE: 381552001500
; CURRENT APPLICATION NUMBER: US/09/860,232A
; CURRENT FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/205,288
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 486
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus amino acid sequence
US-09-860-232A-7

Query Match 6.4%; Score 90.5; DB 10; Length 486;
Best Local Similarity 26.4%; Pred. No. 0.23;
Matches 29; Conservative 28; Mismatches 32; Indels 21; Gaps 5;
QY 144 LKSVVQFLLLTGMLVGGIIGHVSDRWLVESARWLIITNKLDEGLKALKRKVARTNGIKNA 203
DB 190 LQVPAALLLIIGLL-----FLPESPRWLVEKGLKEAREVL---AKLRGVEDV 234
QY 204 EETLNIEVVRSTMQEELDAAQT-KTTVCDLFR---NPSMRKRICILVFLR 249
DB 235 DQ--EIQEIKAELEAGVEEKGAGKASWGLFGRTRTPKVRQRLMGVMLQ 282

RESULT 13
US-10-095-139-14
; Sequence 14, Application US/10095139
; Patent No. US20020165357A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Silos-Santiago, Inmaculada
; APPLICANT: Millennium Pharmaceuticals, Inc.
; TITLE OF INVENTION: 38554, 57301, and 58324, Human Organic
; TITLE OF INVENTION: Ion Transporters and Uses Thereof
; FILE REFERENCE: MP101-017P1RNM

; CURRENT APPLICATION NUMBER: US/10/095,139
; CURRENT FILING DATE: 2002-03-11
; PRIOR APPLICATION NUMBER: 60/275,172
; PRIOR FILING DATE: 2001-03-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 487
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus
US-10-095-139-14

Query Match 6.4%; Score 90.5; DB 9; Length 487;
Best Local Similarity 26.4%; Pred. No. 0.23;
Matches 29; Conservative 28; Mismatches 32; Indels 21; Gaps 5;
QY 144 LKSVVQFLLLTGMLVGGIIGHVSDRWLVESARWLIITNKLDEGLKALKRKVARTNGIKNA 203
DB 190 LQVPAALLLIIGLL-----FLPESPRWLVEKGLKEAREVL---AKLRGVEDV 234
QY 204 EETLNIEVVRSTMQEELDAAQT-KTTVCDLFR---NPSMRKRICILVFLR 249
DB 235 DQ--EIQEIKAELEAGVEEKGAGKASWGLFGRTRTPKVRQRLMGVMLQ 282

RESULT 14
US-09-795-693-27
; Sequence 27, Application US/09795693
; Patent No. US20020068710A1
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria A.
; TITLE OF INVENTION: 20685, 579, 17114, 23821, 33894, and
; TITLE OF INVENTION: 32613, No. US20020068710A1el Human Transporters
; FILE REFERENCE: 35800/209292
; CURRENT APPLICATION NUMBER: US/09/795,693
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,906
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 487
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Pfam consensus sequence
US-09-795-693-27

Query Match 6.4%; Score 90.5; DB 10; Length 487;
Best Local Similarity 26.4%; Pred. No. 0.23;
Matches 29; Conservative 28; Mismatches 32; Indels 21; Gaps 5;
QY 144 LKSVVQFLLLTGMLVGGIIGHVSDRWLVESARWLIITNKLDEGLKALKRKVARTNGIKNA 203
DB 190 LQVPAALLLIIGLL-----FLPESPRWLVEKGLKEAREVL---AKLRGVEDV 234
QY 204 EETLNIEVVRSTMQEELDAAQT-KTTVCDLFR---NPSMRKRICILVFLR 249
DB 235 DQ--EIQEIKAELEAGVEEKGAGKASWGLFGRTRTPKVRQRLMGVMLQ 282

RESULT 15
US-09-795-693-20
; Sequence 20, Application US/09795693
; Patent No. US20020068710A1
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria A.
; TITLE OF INVENTION: 20685, 579, 17114, 23821, 33894, and
; TITLE OF INVENTION: 32613, No. US20020068710A1el Human Transporters
; FILE REFERENCE: 35800/209292
; CURRENT APPLICATION NUMBER: US/09/795,693

Tue, Jan 7 08:48:13 2003

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CURRENT FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: 60/185,906
PRIOR FILING DATE: 2000-02-29
NUMBER OF SEQ ID NOS: 42
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 20
LENGTH: 535
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Pfam consensus sequence
US-09-795-693-20

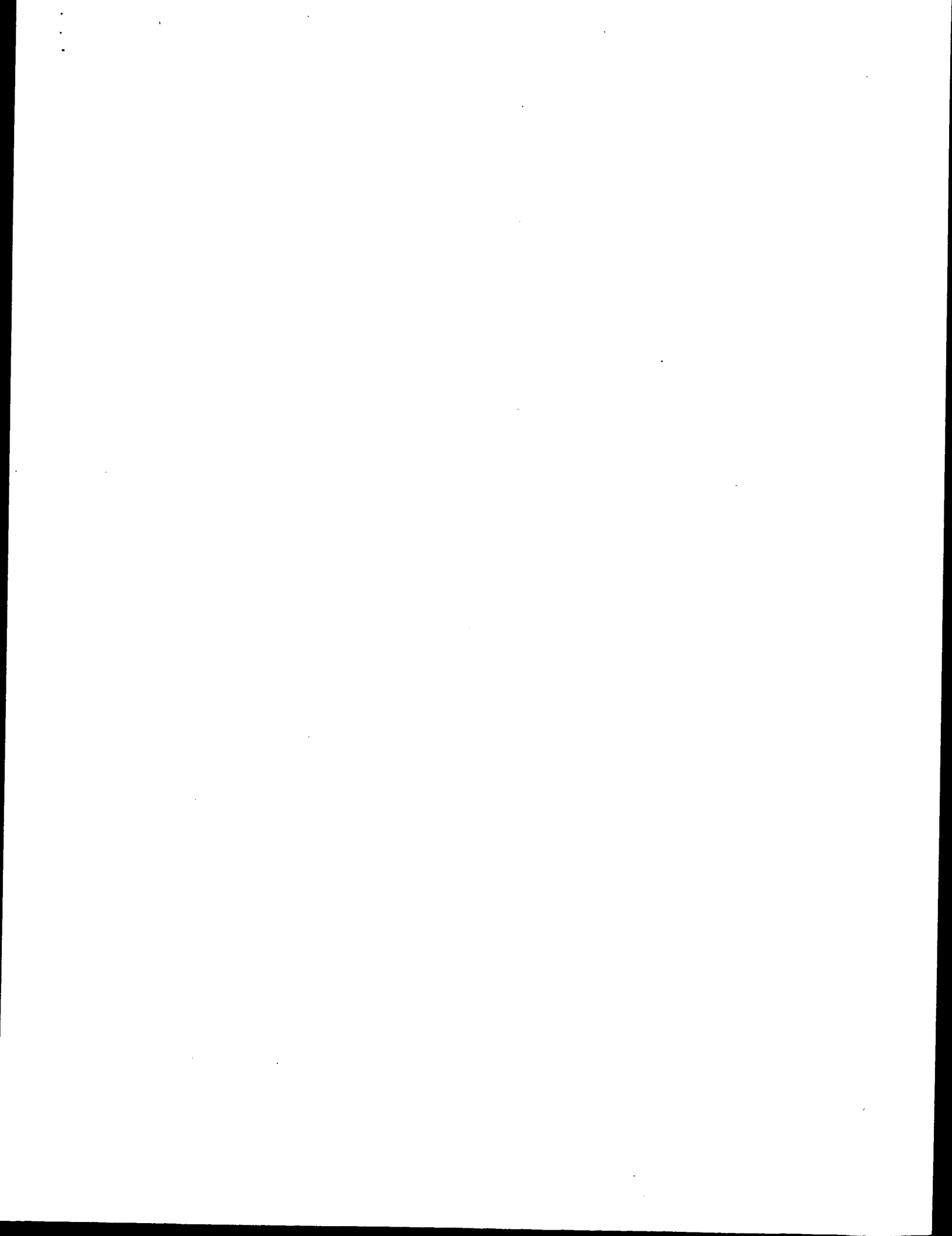
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Best Local Similarity 26.4%; Pred. No. 0.27;
Matches 29; Conservative 28; Mismatches 32; Indels 21; Gaps 5;

QY 144 LKSVQFLITGMLVGGIGIGHVSDRWLVESARWLLITNKLDGLKALRKVARTNGIKNA 203
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 238 LQIVPALLLIGLL-----FLPESPRWLVEKKGKLEAREVL--AKLRGVEDV 282

QY 204 EETLNIEVVRSTWQEEIDAAQT-KTIVCDLFR--NPSMRKRICIVFLR 249
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 283 DQ--EIQETKAELEAGVEEKEKAGKASWGELFRGRTRPKVRQRLIMGVMLQ 330

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Tue Jan 7 08:48:16 2003

us-09-674-235-19.rnpb

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: January 6, 2003, 20:58:28 ; Search time 82.9055 Seconds
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Title: US-09-674-235-19

Perfect score: 1705

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Gapop 10.0, Gapext 1.0

Searched: 381593 seqs, 216252194 residues

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Maximum Match 100%
Listing first 45 summaries

Database: Published Applications NA:*

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score greater than or equal to the score of the result being printed.
and is derived by analysis of the total score distribution.

SUMMARIES

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1	738.6	43.3	9	US-10-050-786-3
2	218.4	12.8	9	US-10-095-139-4
3	208.8	12.2	9	US-10-095-139-4
4	165.2	9.7	10	US-09-960-352-3386
5	161.8	9.5	10	US-09-864-761-8860
6	136.2	8.0	10	US-09-833-381-2007
7	110.2	5.3	10	US-09-917-800A-1646
8	90.2	5.3	10	US-09-983-965-4511
9	80.6	4.7	10	US-09-798-743A-2
10	62.6	3.7	10	US-09-798-743A-2
11	59.4	3.5	10	US-09-960-352-4582
12	50	2.9	10	US-09-790-988-1
13	50	2.9	10	US-09-790-988-1
14	49.8	2.9	10	US-09-801-861-3
15	47.2	2.8	10	US-09-960-352-2919
16	47.2	2.8	10	US-09-816-028A-30
17	46.6	2.7	10	US-09-864-761-12350
18	45.6	2.7	10	US-09-969-373-354
19	45.6	2.7	10	US-09-969-373-354

20	45.6	2.7	431	10	US-09-960-352-5558	Sequence 5558, Ap
21	44.8	2.6	516	10	US-09-960-352-5785	Sequence 5785, Ap
22	44.8	2.6	599	10	US-09-770-149-981	Sequence 981, Ap
23	44.2	2.6	56737	10	US-09-782-378A-17	Sequence 17, Ap
24	44.2	2.6	416	10	US-09-960-352-4584	Sequence 4584, Ap
25	44.2	2.6	1880	10	US-09-887-576-10	Sequence 10, Ap
26	44.2	2.6	2000	9	US-09-938-842A-3181	Sequence 3181, Ap
27	43.6	2.6	454	10	US-09-764-887-47	Sequence 47, Ap
28	43.6	2.6	796	10	US-09-764-887-376	Sequence 376, Ap
29	43.4	2.5	335	10	US-09-960-352-13489	Sequence 13489, A
30	43.4	2.5	2000	9	US-09-938-842A-3235	Sequence 3235, Ap
31	43.2	2.5	344	10	US-09-960-352-1036	Sequence 1036, Ap
32	43.2	2.5	411	10	US-09-960-352-573	Sequence 573, Ap
33	43.2	2.5	1872	9	US-09-938-842A-3504	Sequence 3504, Ap
34	43.2	2.5	19553	10	US-09-764-847-1425	Sequence 1425, Ap
35	43.2	2.5	374	10	US-09-960-352-6528	Sequence 6528, Ap
36	42.8	2.5	414	10	US-09-960-352-11234	Sequence 11234, A
37	42.6	2.5	419	10	US-09-960-352-12302	Sequence 12302, A
38	42.4	2.5	341	10	US-09-960-352-7198	Sequence 7198, Ap
39	42.4	2.5	448	10	US-09-960-352-5301	Sequence 5301, Ap
40	42.4	2.5	480	10	US-09-960-352-2109	Sequence 2109, Ap
41	42.4	2.5	529	10	US-09-983-965-4201	Sequence 4201, Ap
42	42.4	2.5	2000	9	US-09-938-842A-4201	Sequence 87, Ap
43	42.4	2.5	2252	9	US-09-870-759-87	Sequence 15, Ap
44	42.4	2.5	782	10	US-09-954-773A-15	
45	41.8	2.5				

ALIGNMENTS

RESULT 1
US-10-050-786-3
Sequence 3, Application US/10050786
Patent No. US20020155539A1
GENERAL INFORMATION: Ruben et al.
TITLE OF INVENTION: Calcium Channel Polynucleotides, Polypeptides, and Antibodies
FILE REFERENCE: PTO13P1C
CURRENT APPLICATION NUMBER: US/10/050,786
CURRENT FILING DATE: 2002-01-18, 028
PRIOR APPLICATION NUMBER: US 09/774,028
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: PCT/US00/20392
PRIOR FILING DATE: 2000-07-27
PRIOR APPLICATION NUMBER: US 60/145,958
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: US 60/149,446
PRIOR FILING DATE: 1999-08-18
PRIOR APPLICATION NUMBER: US 60/189,064
PRIOR FILING DATE: 2000-03-14
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 3.1
SEQ ID NO 3
LENGTH: 1316
TYPE: DNA
ORGANISM: Homo sapiens
US-10-050-786-3
Query Match 43.3% Score 738.6; DB 9; Length 1316;
Best Local Similarity 98.7% Pred. No. 1.9e-146; Indels 1; Gaps 1;
Matches 755; Conservative 0; Mismatches 9;
Query 933 AAAAAAAAAATCTCAAGAAAGGATTAATGCTACACAAAGTACCAATTTT 992
DB 526 AAAAAAAAAATCTCAAGAAAGGATTAATGCTACACAAAGTACCAATTTT 585
Query 993 AGAAGCCTTCATGCGATTTGGTGGGAATTCAGAAAAAATACGAAAAAGACA 1052
DB 586 AGAAGCCTTCATGCGATTTGGTGGGAATTCAGAAAAAATACGAAAAAGACA 645
Query 1053 CACCGAAGAGGTTTTCCTTACCAACGACAGAAATATATAGTATCAATCTCA 1112

Db 646 CACCAAGGGGTTTTTCCCTACAAACAGCAAGACATATATTAGATACATGAATCTCA 705
 QY 1113 ATTATAATTATGGCAATTAATTGGCAATTTATTTCAAAATTAACCTTTGGGACATGTAAT 1172
 Db 706 ATTATAATTATGGCAATTAATTGGCAATTTATTTCAAAATTAACCTTTGGGACATGTAAT 1172
 QY 1173 CTCCTGAGCAATCTGATATATTTTGGGAAGTCCCTTTAAAAGTTTACAAATTTATCAATAA 765
 Db 766 CTCCTGAGCAATCTGATATATTTTGGGAAGTCCCTTTAAAAGTTTACAAATTTATCAATAA 1232
 QY 1233 TTACTAGTAGATAAGATGATTCAGAAACAAAAGAAAATCACAGAATTTAGGATGGCTGG 825
 Db 826 TTACTAGTAGATAAGATGATTCAGAAACAAAAGAAAATCACAGAATTTAGGATGGCTGG 1292
 QY 1293 CTGGCTGATGAAGCACCCTGATGAATTCATAAAGTTGCAAAAGTCAAAACCAATACTGT 885
 Db 886 CTGGCTGATGAAGCACCCTGATGAATTCATAAAGTTGCAAAAGTCAAAACCAATACTGT 1352
 QY 1353 ACATGCAACCAAGAAATCAAAATAAATCCAGAAATAGAGACCTATATAAATGCAATTTAATA 945
 Db 946 ACATGCAACCAAGAAATCAAAATAAATCCAGAAATAGAGACCTATATAAATGCAATTTAATA 1412
 QY 1413 CATGATACCTTTTGACATAAATAGCCATTTGAAAACCGAAAGATTAGATACCTAAATAACAT 1005
 Db 1006 CATGATACCTTTTGACATAAATAGCCATTTGAAAACCGAAAGATTAGATACCTAAATAACAT 1472
 QY 1473 TGACTATCTTTTGATAATACAGTCACTAAATGATTTAGTTACTTTTCCATGGTGAAT 1065
 Db 1066 TGACTATCTTTTGATAATACAGTCACTAAATGATTTAGTTACTTTTCCATGGTGAAT 1532
 QY 1533 TTTAATTTACTTTTCTTCTGTAATTTTCTCTCTGTAATTTTAAACAAATAGCTGGTATA 1125
 Db 1126 TTTAATTTACTTTTCTTCTGTAATTTTCTCTCTGTAATTTTAAACAAATAGCTGGTATA 1592
 QY 1593 GTTTACAATATTATAGATATTTGTTCAAAATTTGAAGGCAAGCCAGGTTACAGCAATTT 1184
 Db 1185 GTTTACAATATTATAGATATTTGTTCAAAATTTGAAGGCAAGCCAGGTTACAGCAATTT 1652
 QY 1653 TCAAACTGTATGATACATTTTAAATAAATAAATTAATAAATTTAAAAAT 1244
 Db 1245 TCAAACTGTATGATACATTTTAAATAAATAAATTAATAAATTTAAAAAT 1697
 Db 1245 TCAAACTGTATGATACATTTTAAATAAATAAATTAATAAATTTAAAAAT 1289

RESULT 2

US-10-095-139-4
 ; Sequence 4, Application US/10095139
 ; Patent No. US20020165357A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Curtis, Rory A.J.
 ; APPLICANT: Silos-Santiago, Inmaculada
 ; TITLE OF INVENTION: Millennium Pharmaceuticals, Inc.
 ; FILE REFERENCE: 38554, 57301, and 58324, Human Organic
 ; CURRENT APPLICATION NUMBER: MPI01-017P1RNM
 ; PRIOR FILING DATE: 2002-03-11
 ; PRIOR FILING DATE: 2002-03-11
 ; PRIOR FILING DATE: 2001-03-12
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 4
 ; LENGTH: 2866
 ; TYPE: DNA
 ; ORGANISM: homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (365)...(2026)
 ; OTHER INFORMATION: "n" represents ambiguous nucleotides
 ; NAME/KEY: misc feature
 ; LOCATION: (1)...(2866)
 ; OTHER INFORMATION: n = A,T,C or G

US-10-095-139-4

Query Match

Best Local Similarity 12.8%; Score 218.4; DB 9; Length 2866;
 Matches 339; Conservative 62.8%; Pred. No. 6.5e-37;
 Mismatches 201; Indels 0; Gaps 0;

QY 155 GCTCTCTCTTTGGGGTCAAGTGTTCACAAATCAATGCGCTTTGAGGAGCTCTTGAAGTCAAG 214
 Db 333 GCGCCCTCTTCTGGGCCCCCTTGAAGTGTTCACAAATCAATGCGCTTTGAGGAGCTCTTGAAGTCAAG 214
 QY 215 TTGGAGGCTCTGGGAGATTTCAGATGCTTCTGTTTATTTTATTTCTCCCTCTCTCATGT 392
 Db 393 TGGGTGGCTGGGAGGTTCCAGGTTCTCCAGAGATGGCTCTGATGGTCTCCATCATGT 274
 QY 275 TATTAATCCCTCATATATCTGTAGAGAACTTCTGTCAGGCAATTCCTGGTGTCTGATGGTCTCCATCATGT 452
 Db 453 GGCTGTGTACCCAGAGCATGCTGGAGAACTTCTGGGCCCCGCTGCGCCAGCCACCGCTGCT 334
 QY 335 GGTGCCACATGCTGGACAAATACTGGATCTGGTAATGAACTGGAATCTCTAGGAGCTTGAATCCTG 512
 Db 513 GGGCACCCCTCTGGACACAGACAGGCTTCAGGCCAGCATCTCTAGGAGCTTGAATCCTG 394
 QY 395 ATGCCCTCTTGAGATCTCTATCCCACTAGACTCAAAATCTGAGGCCAGAGAGTGTCTC 572
 Db 573 AGCCCTCTCTGGTATTTCCATCCCGCCGCAACAGAGGCCCCACAGTGGCGCC 454
 QY 455 GCTTTGTTCATCCCGAGTGGGAGCTTCTTCACTGAAATGGGACTTATCCAGACACAAATG 632
 Db 633 GCTTCGGCCAGCAACAGTGGGAGCTTCTTGAACCCCAATGCGCCAGCCACAGTGGAGCG 514
 QY 515 AGGCAGACACAGAACCCCTGTTGATGGCTGGGTATATATGATCAAGCTACTTCCCTTCA 692
 Db 693 AGGCAGACACAGAACCCCTGTTGATGGCTGGGTATATATGATCAAGCTACTTCCCTTCA 574
 QY 575 CCATTGTGACTAGTGGGACCTGGTATGTGATTCAGTCACTGAAATCAGTGGTTCAT 752
 Db 753 CAATCGTGGCCAAAGTGAACCTCGTGTGACTCTCATGCTCTGAAGCCATGGCCCAT 634
 QY 635 TCTACTTCTGACTGGAATGCTGGTGGGAGGCATCATAGTGGCCATGCTCTCAGACAGGT 812
 Db 813 CCATCTACCTGGCTGGGATTTCTGGTGGAGCTGCTGCGCGCCCTGCTTCACACAGGT 694

RESULT 3

US-10-095-139-6
 ; Sequence 6, Application US/10095139
 ; Patent No. US20020165357A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Curtis, Rory A.J.
 ; APPLICANT: Silos-Santiago, Inmaculada
 ; TITLE OF INVENTION: Millennium Pharmaceuticals, Inc.
 ; FILE REFERENCE: 38554, 57301, and 58324, Human Organic
 ; CURRENT APPLICATION NUMBER: MPI01-017P1RNM
 ; PRIOR FILING DATE: 2002-03-11
 ; PRIOR FILING DATE: 2002-03-11
 ; PRIOR FILING DATE: 2001-03-12
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 6
 ; LENGTH: 1662
 ; TYPE: DNA
 ; ORGANISM: homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (1)...(1662)
 ; OTHER INFORMATION: "n" represents ambiguous nucleotides
 ; NAME/KEY: misc feature
 ; LOCATION: (1)...(1662)
 ; OTHER INFORMATION: n = A,T,C or G

US-10-095-139-6

Query Match

Best Local Similarity 12.2%; Score 208.8; DB 9; Length 1662;
 Matches 339; Conservative 63.2%; Pred. No. 5.7e-35;

Matches 321; Conservative 0; Mismatches 187; Indels 0; Gaps 0;

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QY 187 ATGGCTTTGAGAGAGCTCTTGTAGTCAAGTTGAGAGGCTTTGGAGATTTCAGATGCTTCAT 246
    |||||
Db 1 ATGGCATTTTCTGAACTCTCTGGAAGCTCGGGGGGCTGGGAGCTTCCAGGTTCTCCAG 60
QY 247 CTGGTTTTTATCTCTCTCTCTCTCATGTATTATTCCTCATATCTACTGTAGAGAACTTT 306
    |||||
Db 61 ACGATGGCTCTGTATGATCTTCATCATATGGCTGTGTATCCAGAGCATGCTGGAGAACTTC 120
QY 307 GGTGACGCAATTCCTGTCATGCTGCTGGCTCAATGCTGAGCAATTAATCTGTATCT 366
    |||||
Db 121 TGGCGCGCGGTGGCCAGCACCCTGCTGGGCAACCCCTCTGAGCAACACAGAGGCTCAG 180
QY 367 GGTATGAAACTGGAAATCTTCATGTAAGATGCCCTCTTGAGAACTCTATCCAGCTAGAC 426
    |||||
Db 181 GCGAGCATCTTAGGGAGCTTGAAGCTCTGAGGCGCTCTGCTGCTATTCATCCCGCGGGC 240
QY 427 TCAATCTGAGGCGCAGAGAGTGTGTGCTTGTGTCATCCCACTGGCAGCTTCTTAC 486
    |||||
Db 241 CCGAACCAAGAGGCCCAACAGTGGCGCGCTTCCGCGCAGCAGAGTGGCAGCTCTTGAC 300
QY 487 CTGAATGGAGCTATCCACAGACAGAGTGGCGAGACAGAAACCTGTGGATGCTGG 546
    |||||
Db 301 CCGAATGGCAGCGGCACAGCTGGAGGAGGCGCAGACGGAGCGCTGTGGATGCTGG 360
QY 547 GTATATGATCAAGCTACTTCTCTTCCAGCATTTGTGACTAATGAGGAGCTGTGATGAT 606
    |||||
Db 361 GTCTATAGACCGAGCATCTTCACTCCAGCATGTGGCCAGTGGAACTGTGTGTAC 420
QY 607 TATCAGTCACTGAATATGATGCTGAATCTCTACTCTTCTGATCTGAAATGCTGGAGAGC 666
    |||||
Db 421 TCTCATGCTCTGAAGCCCATGCGCCAGTCACTAAGCTGGCTGGGATTTCTGGTGGAGCT 480
QY 667 ATCATAGTGGCCATGCTCTCAGACAGGT 694
    |||||
Db 481 GCTGCGTGGCGCTCTGCTCAGACAGGT 508
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RESULT 4

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US-09-960-352-3386/C
; Sequence 3386, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Wairren, Wesley C.
; APPLICANT: Tao, Mengping
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 3386
; LENGTH: 265
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 15-LIB3058-028-Q1-K1-D3
US-09-960-352-3386

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Query Match 9.7%; Score 165.2; DB 10; Length 265;
 Best Local Similarity 7.5%; Pred. No. 4.6e-26;
 Matches 200; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

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QY 258 TCTTCCCTCTCTCATGTTATTATTCCTCATATATCTGTAGAGAACTTGGTGGAGCAT 317
    |||||
Db 264 TTTTCTTTTATCATGATAGTAGTCTGCTACTCATTTGCTGAGAACTTCACTGCAAGCCT 205
    |||||
QY 318 TCTTGGTCAATGCTGCTGGGCTGCAATGCTGCAATATATCTGATCTGTATTAAGAAC 377
    |||||
Db 204 TCTTGGTCAATGCTGCTGGGCTGCAATGCTGCAATATATGCTGATTAATGATATAC 145
    |||||

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QY 378 TGGATTCCTCAGTGAAGATGCCCTCTTGAGATCTCTATCCCACTAGACTCAATCTGAG 437
    |||||
Db 144 TGGATTCCTCAGCCCTGATGTCTCTGTGGAAATCTCCATCCCACTGATCAAACTTCAA 85
    |||||
QY 438 GCCAGAGAGTGTGCTGCTTTGTCCATCCCAAGTGGCAGCTTCTTCACTGAATGGAGC 497
    |||||
Db 84 GCCAGAGAAATGTGCTGCTTCTCCATCCCAAGTGGCAGCTTCTTCACTGAATGAGAC 25
    |||||
QY 498 TATCCACAGCACAAGTGA 515
    |||||
Db 24 CTTCCCAACATGACTGA 7
    |||||

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RESULT 5

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US-09-864-761-8860/C
; Sequence 8860, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT FILING DATE: 2001-05-23
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 8860
; LENGTH: 540
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC012153.10
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 6
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 7.2

```


APPLICANT: Robison, Keith E.
 TITLE OF INVENTION: No. US20020132090A1el Nucleic Acid and Protein Homologs
 FILE REFERENCE: 5800-119
 CURRENT APPLICATION NUMBER: US/09/833,381
 CURRENT FILING DATE: 2001-04-11
 PRIOR APPLICATION NUMBER: 09/556,448
 PRIOR FILING DATE: 2000-02-29
 NUMBER OF SEQ ID NOS: 2050
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 2007
 LENGTH: 401
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: (1)...(401)
 OTHER INFORMATION: n = A,T,C or G
 -09-833-381-2007

Query Match	6.5%	Score 110.2;	DB 10;	Length 401;
Best Local Similarity	73.9%;	Pred. No. 2e-14;		
Matches 164;	Conservative	0;	Mismatches 56;	Indels 2;
				Gaps 2

501	CCACAGCA	CAAGTAGG	CAGACAC	AC	AGAACCTG	TGATGATG	CGCGGGTATATGA	-TCAA	558
502									
390	CCCCAAC	CAAAATAG	CACACAC	AGNNAG	CGCCCTG	TGTGATG	ATGCTGGGTGTAC	CACACAGAN	3313b
559	AGCTACT	TCCCTTGC	ACCATTTG	TGACTGA	CTAAGTGG	AGCCTGGTAT	TGTGATTA	TCACTCACTG	618b
330	AGCTCTT	CTCTCTC	ACACCAT	CTGTGAT	CGATGG	AGCCTGTG	TATGTGAAT	CTCAGTCACTA	2725b
619	AAATCAG	TGATTCA	ATTCTT	CTACTG	ATCTG	TGAGAG	GAGCATCAT	TAGAGGC	678b
270	AAATCAAT	GATTCAAT	CCATTAT	TATG	CTGGCTG	CACTCTG	GGAGGTC	TATATATG	2111b
679	CATGCT	CAGACAG	GTGGTGG	ATCGG	ATCTCG	GGAGTTG			720
210	CATCTTT	CAGACAG	CTCTCTG	CTCAAGT	CTCTTG	CGTCGGTG			169

RESULT 9
 US-09-917-800A-1646
 Sequence 1646, Application US/09917800A
 Patent No. US20020119462A1
 GENERAL INFORMATION:
 APPLICANT: Mendrick, Donna
 APPLICANT: Porter, Mark
 APPLICANT: Johnson, Kory
 APPLICANT: Castle, Arthur
 APPLICANT: Elashoff, Michael
 APPLICANT: Gene Logic, Inc.
 TITLE OF INVENTION: Molecular Toxicology Modeling
 FILE REFERENCE: 44921-5038-US
 CURRENT APPLICATION NUMBER: US/09/917,800A
 CURRENT FILING DATE: 2001-07-31
 PRIOR APPLICATION NUMBER: US 60/222,040
 PRIOR FILING DATE: 2000-07-31
 PRIOR APPLICATION NUMBER: US 60/222,880
 PRIOR FILING DATE: 2000-11-02
 PRIOR APPLICATION NUMBER: US 60/290,029
 PRIOR FILING DATE: 2001-05-11
 PRIOR APPLICATION NUMBER: US 60/290,645
 PRIOR FILING DATE: 2001-05-15
 PRIOR APPLICATION NUMBER: US 60/292,336
 PRIOR FILING DATE: 2001-05-22
 PRIOR APPLICATION NUMBER: US 60/295,798
 PRIOR FILING DATE: 2001-06-06
 PRIOR APPLICATION NUMBER: US 60/297,457
 PRIOR FILING DATE: 2001-06-13
 PRIOR APPLICATION NUMBER: US 60/298,884
 PRIOR FILING DATE: 2001-06-19
 PRIOR APPLICATION NUMBER: US 60/303,459
 PRIOR FILING DATE: 2001-07-09

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? NUMBER OF SEQ ID NOS: 1740
? SOFTWARE: Patentin Ver. 2.1
? SEQ ID NO: 1646
? LENGTH: 2227
? TYPE: DNA
? ORGANISM: Rattus norvegicus
? FEATURES:
? OTHER INFORMATION: Genbank Accession No. US0020119462A1 NM_017224
? US-09-917-800A-1646

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Query Match	5.3%;	Score 90.2;	DB 10;	Length 2227;
Best Local Similarity	52.7%;	Pred. No. 5.5e-10;		
Matches 268;	Conservative 0;	Mismatches 208;	Indels 33;	Gaps 2.

Oy	185	CAATGGCCTTTGAGGACCTCTTAGCACAATTGAGAGCCCTGGGAATTCCTAGATGCTTC	244
Db	252	CCATGGCCCTTCAATGACCTCTCTGAAACAGGTGGGGGGCGTGGACCCCTTCAGATTGATCC	311
Oy	245	ATTGGTTTATTCCTTCCTCTCTCTCAATGTTATTAATTCCTCATATATGCTTAGAGAACT	304
Db	312	AGGTACCATGATGATGTGCTCCCTCACTGCTGATGAGCTTCCACAAACCTTGGACAAGCT	371
Oy	305	TTGCTGCAGCATTCTCTGGATCATGCTGTGCGGGGCCACATGCTGGACCAATAATATCGAAT	364
Db	372	TCATCGCCGCTATCCCCCTATCTACTGCGCCACC-----	408
Oy	365	CTGGTAATGAAACTGGAATCTCTCAGTAAGATGCCCTTGGAAATTCATCCCACTAG	424
Db	409	-----TGCCAATCCCATCTCAGACAAAGATGAGGTCTGGAAGCTGAGTCCCTGG	461
Oy	425	ACTCAAACTGAGGCGAGAGAAAGTGTGCTTGTTCCAATCCCGATGCGACCTTCTC	484
Db	462	ACAAAGCAAGACAAATCCGAATGTGTGCTTCGGCTTTACTTCCCCCAATGGGGACAACTCT	521
Oy	485	ACCTGAATGGAGCTATCCACAGCACAAACTGAGGCAAGACAAACCTGTGTGTGATGGCT	544
Db	522	TTTACAAATGGAC---AGAAAGCAATGGCAACAGAGTCAACGAGCCCTGCATTTGATGGCT	578
Oy	545	GGGTATATGATTAAGAGCAATCTCCCTTGACCATTTGTGACTTAATGTGGAGCCTGGTATGTG	604
Db	579	GGGTCTATATACAAACGACACTTTCCTTTAACAATGTGTATCTGATGTGAAACCTTGTGTCT	638
Oy	605	ATTATCAGTCACTGAAATCAATGATGTTCAATTCCTTACTTTGACTGGAATGTGTGTGGAG	666
Db	639	CTCATCGGGCTTTCGGCAGCTGGCCAGCTCCCTGTACATGATGATGGAGTGTCTGTGGGAG	696
Oy	665	GCATCAATAGTGGCCATGTCTAGACAG	693
Db	699	CAATGGTGTGGCTACTGCGGACAG	727

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, RESULT 9
, US-09-983-965-4511
, Sequence 4511, Application US/09983965
, Patent No. US20020137160A1
, GENERAL INFORMATION:
, APPLICANT: Warren, Wesley C.
, APPLICANT: Tao, Nengping
, APPLICANT: Byatt, John C.
, APPLICANT: Mathalaagan, Nagappan
, TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
, TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
, FILE REFERENCE: 37-21(10257)C
, CURRENT APPLICATION NUMBER: US/09/983,965
, CURRENT FILING DATE: 2001-10-26
, PRIOR APPLICATION NUMBER: US 09/465,231
, PRIOR FILING DATE: 1999-12-15
, PRIOR APPLICATION NUMBER: US 60/113,678
, PRIOR FILING DATE: 1998-12-17
, NUMBER OF SEQ ID NOS: 5912
, SEQ ID NO 4511
,
, LENGTH: 370
,
, TYPE: DNA
,

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Query Match 2.9%; Score 50; DB 10; Length 393;
 Best Local Similarity 45.9%; Pred. No. 0.09;
 Matches 170; Conservative 0; Mismatches 200; Indels 0; Gaps 0;

QY 1032 AAAAAATACAGAAAAGAACACACAGAAAGGTTTTTTCCTACACACAGCAGACACT 1091
 DB 393 AAAAAAAAAAAAAAAAAATTAATTAATAAAAAAAAAAAAAAAAAATTTATATATA 334

QY 1092 ATATTAGTACATGATCTCATTTATTAATTAATGCAATTAATTTGCAATTTATTCGAAT 1151
 DB 333 TATTAAATTTATATATAATAATAATATATATATATATATATATATATATATATAT 274

QY 1152 TAACCTGGGAGACATGATCTCTTGAGCAATCTGATTTTGGGAGTCCCTTTAAA 1211
 DB 273 ATTTTAAAAAATATATATTTAAAAAATTTTAAATATATATTTTAAAA 214

QY 1212 AGTTACAAATTTATCAATTAATTTACTAGTAGATAGATGATTCAGAAACAAAATC 1271
 DB 213 ATAAAAAATTTATATAATAATAATAATAATAATAATAATAATAATAATAATAATA 154

QY 1272 ACAGATTTAGATGTGGCTGGCTGGTATGAAGCACATGTGATTAATTCATTAAGTTG 1331
 DB 153 AA 94

QY 1332 CAAAAGTCAAAACATCTGTACATGCAACAGAAATCAAAATTAATTCAGAAATAGAG 1391
 DB 93 AA 34

QY 1392 CCTATATATA 1401
 DB 33 AAAAAAAAAA 24

RESULT 13
 US-09-790-988-1/c
 ; Sequence 1, Application US/09790988
 ; Patent No. US20020127687A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SHIGENOBU, SHUJI
 ; APPLICANT: WATANABE, HIDEMI
 ; APPLICANT: HATTORI, MASAHIRA
 ; APPLICANT: SAKAKI, YOSHIYUKI
 ; TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
 ; FILE REFERENCE: 081356/0159
 ; CURRENT APPLICATION NUMBER: US/09/790, 988
 ; CURRENT FILING DATE: 2001-02-23
 ; PRIOR APPLICATION NUMBER: JP2000-107160
 ; PRIOR FILING DATE: 2000-04-07
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 640681
 ; TYPE: DNA
 ; ORGANISM: Buchnera sp.
 US-09-790-988-1

Query Match 2.9%; Score 50; DB 10; Length 640681;
 Best Local Similarity 44.7%; Pred. No. 1;
 Matches 277; Conservative 0; Mismatches 340; Indels 3; Gaps 2;

QY 1088 ACATATATTAGATACATGATCTCATATTATTAATTAATGCAATTTATTTATTTCA 1147
 DB 527404 AATATATTTAAAAAGGTTTTTTTAAACATTAAGTCTTTATTTTAAATAAATGTTTT 527345

QY 1148 AATTAACCTGGGAGACATGATCTCTTGAGCAATCTGATTTTGGAGTCCCTTT 1207
 DB 527344 TGTTTTTCATTAATAAATTTTTCATTAACATTTGTTTATTCATAGTCAAAATG 527285

QY 1208 AAAAAATTAATTTATCAATAAATTAATAGTAGTAAGTAGTTAGAGAAACAA-AGA 1266
 DB 527284 ATATATCATTTATTTATTAATAAATAAATAAATTTAAAGATTTATTAATTAATAAATAAATCA 527225

QY 1267 AATACAGATTTAGATGTGGCTGGCTGGTATGAAGCACATGTGATGATTAATCAATA 1326

DB 527224 ATATCTTTCTGTTTTTAAAGATAGATATATTAATTTATTTTAAATACATTATATA 527165

QY 1327 AGTTGCAAAAGTCAAAACATPACTGTACATGCAACACAGAAATCAAAATTAATCCAGAAAT 1386

DB 527164 CATGTATCCAAAGAGTTTATTTCTTTAACTTATGATATTAATTTGAGAAATTTTCTAT 527105

QY 1387 AGAGACCTATATTAATGATTTATATACATGATCTTTGACATATAAGCAATGGAAAA 1446

DB 527104 TTTTATTTAAAAAATTTAAGTAAATAATTTAATTTAGAGTTAAATTTTAAAG 527045

QY 1447 CGGAAGATTAGATCTAAT--AACTTACATCTCTTTGTAATACAGTCACTAAT 1504

DB 527044 TCTATTTTATAGTATTTTAAATGAATATTTGATTTAGAAATCTATTTTATTAACATAT 526985

QY 1505 GATGTGTATCTTTTCCATGAGTGGAAATTTAATTAATCTTTTCTGTAATTTTCTCTC 1564

DB 526984 TTTTTTTAAATATGTTTCTCTTTTAAATTTTATTTTAAATTTTCAAGTTTATATA 526925

QY 1565 TGTATATTTTAAACAAATAGCTGTATAGTTTACATATTTTAAAGATATTTGCAAAAT 1624

DB 526924 TATGTATCAGAAAAAATAAGTACTATTTTGTGATGATATAAATGATTTTCTTA 526865

QY 1625 GAAGGCGAAGGCCAGTTCAGCAATTTTCAACTGTATGTACATTTAATAAATACTA 1684

DB 526864 TTTATTTAAATTTATAGAAATTAATTTTAAATAAGTAAACATGTATTTAATTAAGATA 526805

QY 1685 TAAATTAATAAATTAATTTT 1704
 DB 526804 TTAATAGAAATTAATTTT 526785

RESULT 14
 US-09-790-988-1
 ; Sequence 1, Application US/09790988
 ; Patent No. US20020127687A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SHIGENOBU, SHUJI
 ; APPLICANT: WATANABE, HIDEMI
 ; APPLICANT: HATTORI, MASAHIRA
 ; APPLICANT: SAKAKI, YOSHIYUKI
 ; TITLE OF INVENTION: GENOME DNA OF BACTERIAL SYMBIONT OF APHIDS
 ; FILE REFERENCE: 081356/0159
 ; CURRENT APPLICATION NUMBER: US/09/790, 988
 ; CURRENT FILING DATE: 2001-02-23
 ; PRIOR APPLICATION NUMBER: JP2000-107160
 ; PRIOR FILING DATE: 2000-04-07
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 1
 ; LENGTH: 640681
 ; TYPE: DNA
 ; ORGANISM: Buchnera sp.
 US-09-790-988-1

Query Match 2.9%; Score 49.8; DB 10; Length 640681;
 Best Local Similarity 45.6%; Pred. No. 1.1;
 Matches 253; Conservative 0; Mismatches 297; Indels 5; Gaps 2;

QY 1022 AATTCAGAAAAAATACAGAAAAGAACACACAGAAAGGTTTTTTCCTACAAACCA 1081
 DB 77899 AATGCACAAGAAAAACACAGAAAAATATTCACCAAAATGATCATATAAATCAATCA 77958

QY 1082 GCAGAACATATATTAGATACATGATCTCATTTAATTAATGCAATTAATTTGCAATTTT 1141
 DB 77959 ATAGATGCATCAATAA--ATTAATTCACACGAATAGAAAGCAATATTCAGAA 78015

QY 1142 ATTTCAAAATTAATCTTGGGAGACATGATCTCTTGAGCAATCTGATATTTTGGGAAG 1201
 DB 78016 GAGAGCCATATCTTTATCTAATCTAATTAATCAATGTTATTTTAAATATATATTA 78075

QY 1202 TCCTTAAAAAAGTTCAAAATTTATCAATTAATTTACTAGTAGATTAATTCAGAAAC 1261

Db 78076 AATAGTAAAAAATTTAAAAAATAATTAATTCCTGTTGATAGTAAATTAATCGTGATAAC 78135
QY 1262 AAGAAATACAGAAATTTAGATGTGGCTGGCTGGTGTATGAGACACCATGTGATGAAT 1321
Db 78136 ACAGTAAATTTATGAATTTAAATCATAGTGTATCACATACAAAATGAACATAGAGAAAT 78195
QY 1322 CATAAAGTTGCAAAAGTCAAAACAAT--ACTGTACATGCAACGAGAAATCAAAATAAATC 1379
Db 78196 AAAAGTTATCAGCAGCAGTATATAGTGAACCTTTCTAAGATAAAATGGAAAATTTGTC 78255
QY 1380 CAGAAATAGAGACCTATATAAATGCAATTAATACATGATACCTTTTGACATATAAGCCAT 1439
Db 78256 CCTTTAAGCACACAAAAAATAAATAATTTGAACATTTAATACGAGAAATAGATAT 78315
QY 1440 TGGAAACGGAAGATTAGATCTAAATAACATTCGACTATCTCTTTGTAATACAGTCAC 1499
Db 78316 TCGAAAGCTCGAGGAGATAGTGTTCATCTTGTTAATGATCATTTTGTCTAAATATGATCAA 78375
QY 1500 TAAATGATGTTAGTTACTTTTCCATGGTGAATTTTAATTAATTTCTTTCTTTGTAATTTT 1559
Db 78376 AAATACCAGTTCAATATAAATCATATAAATCTTTTAGAAAATCAAAATTTTATATAAT 78435
QY 1560 CTCTCTGATATTTT 1574
Db 78436 TTTGCACCATGGTTT 78450

RESULT 15

US-09-801-861-3/c
; Sequence 3, Application US/09801861
; Patent No. US20020119544A1
; GENERAL INFORMATION:
; APPLICANT: YAN Chunhua et al.
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CLO01098
; CURRENT APPLICATION NUMBER: US/09/801,861
; CURRENT FILING DATE: 2001-03-09
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 53332
; TYPE: DNA
; ORGANISM: Human
US-09-801-861-3

Query Match 2.9%; Score 49; DB 10; Length 53332;
Best Local Similarity 45.1%; Pred. No. 0.73;
Matches 223; Conservative 0; Mismatches 270; Indels 2; Gaps 1;
QY 1209 AAAAGTTACAAATTTATCAATTAATTTACTAGTAGATGAATGATCAGAAACAAAGAAA 1268
Db 31826 AATTCGAAGAATCTTCTACAAATATTAGTATTTTTTTAGTAGAGCTACTCAGAAGGCTGA 31767
QY 1269 ATCAGAGAATTAGCATGTGGCTGGCTGTATGAAGCACCATGTGATGAATTCATAAAG 1328
Db 31766 GCGAGGAGAAATGCTTGAATCTGGAGGTGGAGGTTCGAGTGAGCTGAGATCGTCCACT 31707
QY 1329 TTGCAAAAGTCAAAACATCTGTACATGCAACAGAAATCAAAATAAATCCAGAAATAG 1388
Db 31706 GCACCTCAGCCTGGGCAATAGAGTGAGACTCCATCTCAAAAAAATAAATACATATAT 31647
QY 1389 AGACCTATATAATGATTTAATACATGATACCTTTTGACATAATAAGCCATTTGGAACG 1448
Db 31646 ATATATAAAAAATATATATATATAAATAAATAAATAAATAAATAAATAAATAAATA 31587
QY 1449 GAAAGATT--AGATACTAAATAACATTGACTATCTCTTTGTAATAACAGTCACTAAATGA 1506
Db 31586 TAAATATATAAATAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 31527
QY 1507 TGTTAGTTACTTTTCCATGGTGAATTTTAATTTTCTTTCTTTGTAATTTTCTCTCTG 1566

Db 31526 TATAAATATAAATATAAATATAAATATAAATATAAATATAAATATAAATATAAATATA 31467
QY 1567 TATATTTTAAACAAATAGCTGTATAGTTTACAATATTATAAAGATATTGTTCCAAATGA 1626
Db 31466 AAAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 31407
QY 1627 AGGCAAGGCCAGGTTTCAGCAATTTTCCAACTGTGTACATTTTAATAAATAAATAA 1686
Db 31406 AAATATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 31347
QY 1687 AATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 1701
Db 31346 AAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 31332

Search completed: January 6, 2003, 22:57:00
Job time : 436.906 secs

GenCore version 5.1.3
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om nucleic - nucleic search, using sw model

Run on: January 6, 2003, 20:52:58 ; Search time 70.6736 Seconds
(without alignments)
7398.577 Million cell updates/sec

Title: US-09-674-235-19
Perfect score: 1705
Sequence: 1 aagacgcgaggaagctctt.....aatataaataatattctt 1705

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 441362 segs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Issued Patents NA:
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2: /cgn2_6/prodata/2/ina/5B_COMB.seq.*
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6: /cgn2_6/prodata/2/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	98.8	5.8	280	US-09-172-711-48	Sequence 48, Appl
2	83.8	4.9	2123	US-09-330-245A-1	Sequence 1, Appl
3	81	4.8	1638	US-09-572-147-1	Sequence 1, Appl
4	60.4	3.5	7218	US-08-232-463-14	Sequence 14, Appl
5	54	3.2	5852	US-07-867-106-2	Sequence 2, Appl
6	53.2	3.1	2102	US-08-647-397-1	Sequence 1, Appl
7	49.6	2.9	19124	US-08-487-826B-13	Sequence 13, Appl
8	48.8	2.9	1186	US-08-731-722-5	Sequence 5, Appl
9	47.8	2.8	821	US-08-998-416-541	Sequence 541, App
10	47.6	2.8	1983	US-09-134-001C-1524	Sequence 36, Appl
11	45.6	2.7	663	US-08-883-795A-26	Sequence 2, Appl
12	44.6	2.6	731	US-08-451-405A-2	Sequence 2, Appl
13	44	2.6	5852	US-07-867-106-2	Sequence 36, Appl
14	43.6	2.6	665	US-08-883-795A-36	Sequence 8, Appl
15	43.6	2.6	1511	US-07-991-867B-32	Sequence 32, Appl
16	43.6	2.6	1511	US-08-107-755A-8	Sequence 8, Appl
17	43.6	2.6	1511	US-08-544-333-8	Sequence 8, Appl
18	43.6	2.6	1511	US-09-370-861A-8	Sequence 1137, Ap
19	43.4	2.5	636	US-08-998-416-1137	Sequence 535, App
20	43.2	2.5	827	US-08-998-416-535	Sequence 32, Appl
21	42.8	2.5	660	US-07-991-867B-32	Sequence 32, Appl
22	42.8	2.5	660	US-08-544-332-32	Sequence 32, Appl
23	42.8	2.5	660	US-09-370-861A-32	Sequence 32, Appl
24	42.8	2.5	711	US-08-998-416-786	Sequence 786, App
25	42.8	2.5	4810	US-08-852-629-11	Sequence 11, Appl
26	42.8	2.5	4810	US-08-852-629-11	Sequence 15, Appl
27	42.8	2.5	4838	US-08-852-629-15	Sequence 15, Appl

C	28	42.8	2.5	19124	2	US-08-487-826B-13	Sequence 13, Appl
	29	42.6	2.5	665	4	US-08-998-416-185	Sequence 185, App
	30	42.6	2.5	665	4	US-08-998-416-937	Sequence 937, App
	31	42.6	2.5	701	4	US-08-998-416-701	Sequence 701, App
	32	42.6	2.5	724	4	US-08-998-416-683	Sequence 683, App
	33	42.6	2.5	732	4	US-08-998-416-1036	Sequence 1036, Ap
	34	42.6	2.5	828	4	US-08-998-416-538	Sequence 538, App
	35	42.6	2.5	834	4	US-08-998-416-305	Sequence 305, App
	36	42.4	2.5	731	1	US-08-451-405A-2	Sequence 2, Appl
	37	42.4	2.5	1422	1	US-08-319-704-5	Sequence 5, Appl
	38	42.4	2.5	2334	1	US-08-062-632-4	Sequence 288, App
	39	42.2	2.5	837	4	US-08-998-416-288	Sequence 1, Appl
	40	42.2	2.5	6243	2	US-09-056-075-1	Sequence 1, Appl
	41	42	2.5	168575	4	US-09-426-290-1	Sequence 15, Appl
	42	41.8	2.5	782	4	US-09-007-119-15	Sequence 19, Appl
	43	41.8	2.5	1519	1	US-07-971-759-19	Sequence 1, Appl
	44	41.8	2.5	9636	1	US-08-323-170B-1	Sequence 1, Appl
	45	41.8	2.5	9636	4	US-08-954-441-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-09-172-711-48
; Sequence 48, Application US/09172711
; Patent No. 6160105
; GENERAL INFORMATION:
; APPLICANT: Cunningham, Mary Jane
; APPLICANT: Zweigler, Gary B.
; APPLICANT: Panzer, Scott R.
; APPLICANT: Sellhammer, Jeffrey J.
; TITLE OF INVENTION: MONITORING TOXICOLOGICAL RESPONSES
; FILE REFERENCE: PA-0011 US
; CURRENT APPLICATION NUMBER: US/09/172,711
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PERL Program
; SEQ ID NO 48
; LENGTH: 280
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: -
; OTHER INFORMATION: 700607713H1
US-09-172-711-48

Query Match 5.8%; Score 98.8; DB 4; Length 280;
Best Local Similarity 70.0%; Pred. No. 3.8e-16;
Matches 161; Conservative 0; Mismatches 67; Indels 2; Gaps 2;

QY	126	CTTGAACCTTATCTCCGTAAGCAAT- GTGCTCTCTTTGGGGGTACAGTTCACAA	184
DB	49	CTTTGACCAATTTATTCAGTGAATTTATTTCTTCTATGGAATTTATTTACGCTT	108
QY	185	CAATGACCTTTGAGAGGCTCTTGAAGTGAAGGCTTGGAGATTTAGATCTTC	244
DB	109	CAATGACCTTTGAGAGGCTCTTGAAGTGAAGGCTTGGAGATTTAGATCTTC	168
QY	245	ATCTGATTTTATCTCTCCCTCTCATGTTATTAATCCCTCATATCTGCTAGAAAT	304
DB	169	AAATGTTTTTTTGTTCCTTCCACAGATGTTATGTTGTTACTATTAATTAAGAAAC	227
QY	305	TTGCTGACGACCTTCTGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	354
DB	228	TTACTGACGACCTTCTGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	277

RESULT 2
US-09-330-245A-1
; Sequence 1, Application US/09330245A
; Patent No. 6432631
; GENERAL INFORMATION:
; APPLICANT: GILEAD SCIENCES, INC. et al.

FILE REFERENCE: NOVEL GENE ENCODING ORGANIC ANION TRANSPORTER
CURRENT APPLICATION NUMBER: 240.1PCN#
CURRENT FILING DATE: US/09/330,245A
PRIOR APPLICATION NUMBER: 1999-06-10
PRIOR FILING DATE: 1999-06-10
PRIOR APPLICATION NUMBER: 60/088,864
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/132,267
PRIOR FILING DATE: 1999-05-03
NUMBER OF SEQ ID NOS: 10
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 1
LENGTH: 2123
TYPE: DNA
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: Description of Unknown Organism: This information
OTHER INFORMATION: is not available.
NAME/KEY: CDS
LOCATION: (263)..(1912)
US-09-330-245A-1

Query Match 4.9%; Score 83.8; DB 4; Length 2123;
Best Local Similarity 51.9%; Pred. No. 5.7e-12;
Matches 264; Conservative 0; Mismatches 212; Indels 33; Gaps 2;
QY 185 CAATGGCTTTGAGGAGCTTTGAGTCAAGTTGGAGGCTTGGGAGATTTCAGATGCTTC 244
Db 261 CAATGGCTTTAATGACCTCTGAGCAGAGTGGGGGTGCGCCGCTTCAGCAGATCC 320
QY 245 ATCTGGTTTATTCTTCCCTCTCATGTTAATCCCTCATATATCTGTAGAGAACT 304
Db 321 AGGTACCTTGGTGTCTCCCTGCTCTGATGGCTTCTCAACACCTTGCAGAACT 380
QY 305 TTGCTGAGGCAATTCCTGGTTCATGCTGCTGGTCCACATGCTGGACATAATCTGAT 364
Db 381 TCACCTGCTGCATCCCTACCCACACTGCCGCCGCC----- 417
QY 365 CTGGTAATGAACCTGGAATCTCTAGTGAAGATGCCCTTTGAGAACTCTATCCCACTAG 424
Db 418 -----TGCCGATGCCAAGCTCAGCAAGAACGGGGGCTGGAGTCTGGCTGCCCGGG 470
QY 425 ACTCAATCTGAGGCCAGAGAGTGTCTGCTTTGTCCTCCCTCCAGTGGCAGCTTCTTC 484
Db 471 ACAGGAGGGGAGCTGATGCTCTGCTCCCTTCCTCCCTCCAGTGGGAGTGGCT 530
QY 485 ACTGAATGGGATATCCACAGCAAGTGGAGGAGCAGACAGAACCTGTGTGGATGCT 544
Db 531 TTCTCAATGGCAGAGCAAGCAATGGCAGAGGGC---CACAGAGCCTTGACCGATGGCT 587
QY 545 GGTATATGATCAAGCTACTTCCCTTCGACCAATTTGACTAAGTGGGAGCTGGTATGTG 604
Db 588 GGATCTATGACACAGCAGCTTCCCATCTACCATCGTACTGAGTGGGAGCTTGTGTCT 647
QY 605 ATTATCAGTCACTGAATCAGTGGTTCAATTCCTACTTCTGACTTGAATCTGTGGAG 664
Db 648 CTCACAGGGCCCTACGCCAGCTGGCCAGTCTTGTACATGGTGGGGTCTGCTCGGAG 707
QY 665 GCATCATAGTGGCCTGTCTGACAGAGG 693
Db 708 CCATGGTGTTCGGCTACCTTGCAGACAGG 736

RESULT 3
US-09-572-147-1
Sequence 1, Application US/09572147
Patent No. 6420544
GENERAL INFORMATION:
APPLICANT: Lin Yue
APPLICANT: John Feild
APPLICANT: Harma Ellens
TITLE OF INVENTION: POLYNUCLEOTIDE AND POLYPEPTIDE SEQUENCES
TITLE OF INVENTION: ENCODING MURINE ORGANIC ANION TRANSPORTER 5 (moATP5) AND
TITLE OF INVENTION: SCREENING METHODS THEREOF

FILE REFERENCE: GP-70622
CURRENT APPLICATION NUMBER: US/09/572,147
CURRENT FILING DATE: 2000-05-17
PRIOR APPLICATION NUMBER: 60/134,879
PRIOR FILING DATE: 1999-05-19
NUMBER OF SEQ ID NOS: 2
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1
LENGTH: 1638
TYPE: DNA
ORGANISM: MUS MUSCULUS
US-09-572-147-1

Query Match 4.8%; Score 81; DB 4; Length 1638;
Best Local Similarity 66.1%; Pred. No. 2.7e-11;
Matches 117; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
QY 517 GCAGACAGAACCCCTGTGTGGATGGCTGGTATATGATCAAGCTACTTCCCTTCGACC 576
Db 280 GGAGTCACAGAGCCCTGCTTGTATGGTGGTCTATGACACAGCAGCCTTCCCTTCACC 339
QY 577 ATTGTCACTAAGTGGGACCTGTGTATGATTATCAGTCACTGAATCAGTGGTTCATTC 636
Db 340 ATCGTCACTGAGTGGAACTTGTGTCTCTCATCGGCGCTTCCGCCAGCTGGCCAGTCC 399
QY 637 CTACTTCTCACTGGAATGTGTGGAGGAGCATCATAGTGGCCATGTCTCAGACAGG 693
Db 400 CTGTTCACTGTGGAGTGTACTGGGAGCATGATGTTTGGCTACCTGGCGGACAGG 456

RESULT 4
US-08-232-463-14/c
Sequence 14, Application US/08232463
Patent No. 5670367
GENERAL INFORMATION:
APPLICANT: DORNER, F.
APPLICANT: SCHEIFLINGER, F.
APPLICANT: FALKNER, F. G.
TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 1800 Diagonal Road, Suite 500
CITY: Alexandria
STATE: VA
COUNTRY: USA
ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/935,313
FILING DATE:
APPLICATION NUMBER: EP 91 114 300.6
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/114 IMMU
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)836-9300
TELEFAX: (703)683-4109
TELEX: 899149
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 7218 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
 TOPOLOGY: linear
 IMMEDIATE SOURCE:
 CLONE: PTZgc-Fls
 US-08-232-463-14

Query Match 3.5%; Score 60.4; DB 1; Length 7218;
 Best Local Similarity 8.7%; Pred. No. 8.4e-06;
 Matches 40; Conservative 228; Mismatches 194; Indels 0; Gaps 0;

652 ATCTGCTGGAGGAGCATATAGTGGCCATGCTCTACAGACGCTGCTGTAATCTGCT 711
 1469 ATGCAAGTATGTAAGAAGATAGAGATTTGTACRRRRRRRRRRRRRRRRRRRR 1410
 712 CGGTGTTATATACCAATAAAGTATGAGGCTTAAGGCACTTAAGAAAGTTGCA 771
 1409 RRR 1350
 772 CGCACAATGATATAAGATGCTGAAGAAACCTGACATAGAGTTGATAGATCCACC 831
 1349 RRR 1290
 832 ATGCAAGAGAGCTGATGACAGACCAAACTACTGTGTGCTGCTCCGCAAC 891
 1289 RRR 1230
 892 CCCAGTATGCTGAATAGATCTGATCTGATTTTGAAGAAAAAAATCTCAAGAAA 951
 1229 RRR 1170
 952 AGCATATAATGATCTCTACACAAAGTACCAATTTTAAGAGCTTCATAGCTGA 1011
 1169 RRR 1110
 1012 TTGTGGGGAATTCAGAAAAAAATACAGAAAGAACACACAGAGGTTTTTTTC 1071
 1109 RRR 1050
 1072 CCTACACAGCAAGAACATATATTAGATACATGATCTCA 1113
 1049 CCGCAGCCAGCTCGAATTAATTCTGTGAGCTGATGCA 1008

RESULT 5

US-07-867-106-2
 Sequence 2, Application US/07867106

GENERAL INFORMATION:
 PATENT No. 5389526
 APPLICANT: Slade, Martin B
 APPLICANT: Chang, Andy C M
 APPLICANT: Williams, Keith L
 TITLE OF INVENTION: Improved Plasmid Vectors for Cellular
 TITLE OF INVENTION: Slime Moulds of the Genus Dictyostelium
 NUMBER OF SEQUENCES: 19
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5389526ris
 STREET: One Liberty Place 46th Floor
 CITY: Philadelphia
 STATE: PA
 COUNTRY: USA
 ZIP: 19103
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/867,106
 FILING DATE: 19920625
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: AU PJ 7187
 APPLICATION NUMBER: PCT/AU90/00530
 FILING DATE: 02-NOV-1989

ATTORNEY/AGENT INFORMATION:

NAME: Feeney, Joanne Longo
 REGISTRATION NUMBER: 35,134
 REFERENCE/DOCKET NUMBER: RICE-0002
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 215-568-3100
 TELEFAX: 215-568-3439
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 5852 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 ANTI-SENSE: NO

FEATURE:
 NAME/KEY: CDS
 LOCATION: 2378..5038
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 2378..5038

US-07-867-106-2

Query Match 3.2%; Score 54; DB 1; Length 5852;
 Best Local Similarity 49.1%; Pred. No. 0.00033;
 Matches 173; Conservative 0; Mismatches 175; Indels 4; Gaps 1;

1345 AATACGTATACATGCAACCAAGAAATCAAAATTAATCCAGAAATGAGACCTATATATATGC 1404
 5431 AATATTTGAAATTTTAAABAAAAAATCAAAATATGTTTATG 5490
 1405 ATTTATATCATGATCTTTTGACATATTAAGCCATTGAAAGCAAGATTAATGACTA 1464
 5491 TTTTAAGATTTTAAATCTGCTCATGATTTTAAATTAATTAATGATACATATTTTAA 5550
 1465 AATAACATGACATCTCTTTGTAATACAGTCACTAATATGATGTTACTTTCCAT 1524
 5551 AAAAAC---CCTTACATTTTATTTTATTCOAATTTATACATTTTATTTT 5606
 1525 GGTGAATTTTAACTTTCTTTTCTTTGTAATTTTCTCTGTAATTTTAAACAATAG 1584
 5607 TTTTATTTTATTTTATTTTAAATTTTAAATTTTATTTTATTTTATTTTATTTT 5666
 1585 CTGTATAGTTTACATATTTTAAAGATATTTGTTCAATTTGAGGCAAGGCGAGTTC 1644
 5667 AAAATTTATTTATTTTATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATA 5726
 1645 AGCAATTTTCAACTGTATGTACATTTTAAATTAATTAATTAATTAATTAATA 1696
 5727 AATTAACATATTAATAAAATTAATTAATTAATTAATTAATTAATA 5778

RESULT 6

US-08-647-397-1
 Sequence 1, Application US/08647397

GENERAL INFORMATION:
 PATENT No. 5972702
 APPLICANT: Beier, David R.
 APPLICANT: Brady, Kevin P.
 TITLE OF INVENTION: OSTEOCLAST TRANSPORTER
 NUMBER OF SEQUENCES: 6
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
 STREET: 600 Atlantic Avenue
 CITY: Boston
 STATE: MA
 COUNTRY: USA
 ZIP: 02210
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25

/ CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/647,397
 / FILING DATE:
 / CLASSIFICATION: 424
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Gates, Edward R.
 / REGISTRATION NUMBER: 31,616
 / REFERENCE/DOCKET NUMBER: B0801/7048
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: 617-720-3500
 / TELEFAX: 617-720-2441
 / INFORMATION FOR SEQ ID NO: 1:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 2102 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: double
 / TOPOLOGY: linear
 / MOLECULE TYPE: cDNA
 / HYPOTHETICAL: NO
 / ANTI-SENSE: NO
 / FRAGMENT TYPE: internal
 / ORIGINAL SOURCE:
 / ORGANISM: Mus musculus
 / FEATURE:
 / NAME/KEY: CDS
 / LOCATION: 120..1733
 / US-08-647-397-1

Query Match 3.1%; Score 53.2; DB 2; Length 2102;
 Best Local Similarity 56.5%; Pred. No. 0.00034;
 Matches 122; Conservative 0; Mismatches 88; Indels 6; Gaps 1;
 QY 479 TTCCTCAGCTGAATGGGACTATCCACAGCACAAGTGAGGCAGACACAGAACCTGTGGTGG 538
 Db 349 TGCATCTGCCAACCCAGCTCTCCCAATGACACCCAGGGGCCACCGAGCCATGCTGG 408
 QY 539 ATGGCTGGGTATGATCAAGACTACTTCCCTTCGACACATTTGTGACATTAAGTGGGACCTGG 598
 Db 409 ATGGCTGGATCT-----ACACAGCAGCAGACACACCATTTGTGACAGTGGGACTGG 462
 QY 599 TATGTGATATCAGTCACTCAATCAAGTGGTTCATTTCTCTCTGCTGGAATGCTGG 658
 Db 463 TATCGGCTCCCAAACTGAAGGAGATGGCAGCTCAGTCTTCAATGCGAGGTACTGG 522
 QY 659 TGGGAGCAGCATAGTGGGCTCTCTCAGACAGGT 694
 Db 523 TTGGAGGACCTGTTTGGGAACTGTGACAGAGT 558

RESULT 7
 US-08-487-826B-13
 / Sequence 13, Application US/08487826B
 / Patent No. 5993827
 / GENERAL INFORMATION:
 / APPLICANT: Sim, Kim L.
 / APPLICANT: Chitnis, Chetan
 / APPLICANT: Miller, Louis H.
 / APPLICANT: Peterson, David S.
 / APPLICANT: Su, Xin-zhaun
 / APPLICANT: Wellens, Thomas E.
 / TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
 / TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
 / NUMBER OF SEQUENCES: 45
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Knobbe Martens Olson & Bear
 / STREET: 620 Newport Center Drive 16th Floor
 / CITY: Newport Beach
 / STATE: California
 / COUNTRY: US
 / ZIP: 92660
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible

/ OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: PatentIn Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/487,826B
 / FILING DATE: 10-SEP-1993
 / CLASSIFICATION: 435
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Israelsen, Ned
 / REGISTRATION NUMBER: 29,655
 / REFERENCE/DOCKET NUMBER: NIH121.001CPI
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (619) 235-8550
 / TELEFAX: (619) 235-0176
 / INFORMATION FOR SEQ ID NO: 13:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 19124 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: single
 / TOPOLOGY: linear
 / MOLECULE TYPE: cDNA
 / HYPOTHETICAL: NO
 / ANTI-SENSE: NO
 / US-08-487-826B-13

Query Match 2.9%; Score 49.6; DB 2; Length 19124;
 Best Local Similarity 43.8%; Pred. No. 0.007;
 Matches 217; Conservative 0; Mismatches 279; Indels 0; Gaps 0;
 QY 1021 AAATTCAGAAAAAATAACAGGAAAGAACACACACAGAGGGTTTTTCCCTACAAACC 1080
 Db 15481 AATTTATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 15540
 QY 1081 AGCAAGAACATATATATAGATACATGAATCTCAATTAATAATTATGCGATTAATTTGCAATT 1140
 Db 15541 AAAATTTATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 15600
 QY 1141 TATTTCAAAATTAACCTTTGGGGGACATGTAATCTCTTTGAGCAATCTGATATTTTGGGAA 1200
 Db 15601 AATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 15660
 QY 1201 GTCCTTTAAAAAGTTACAAATTTATCAATAAATAATAATAATAATAATAATAATAATAATA 1260
 Db 15661 GAAAAAATAACATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 15720
 QY 1261 AAAAGAAATCACAGATTTAGGATGGCTGGCTGTATGAGCACCACCATGTCATGAAT 1320
 Db 15721 AAATATATTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 15780
 QY 1321 TCATAAAGTTGCAAAAGTCAAAACATATCTGTACATGCAACGAAATCAAAATAAATCC 1380
 Db 15781 AAAAATAATATACATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 15840
 QY 1381 AGAATAGAGACCTATATAAATGCAATTTAATAACATGATATCTTTGACATATAAAGCAATT 1440
 Db 15841 AAATTTAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 15900
 QY 1441 GAAAAACGAGAGATTAGATCTACTATAAATCAATGCTATCTCTTTGTAATAACAGTCACT 1500
 Db 15901 AAAAATAATTAATGAATAATAATAATAATAATAATAATAATAATAATAATAATAATA 15960
 QY 1501 AAATGATGTTAGTTAC 1516
 Db 15961 AAAATTAATACATGC 15976

RESULT 8
 US-08-731-722-5
 / Sequence 5, Application US/08731722
 / Patent No. 5961971
 / GENERAL INFORMATION:
 / APPLICANT: Martin, Frank N.
 / TITLE OF INVENTION: Biocontrol of Fungal Soilborne Pathogens
 / TITLE OF INVENTION: By Pythium oligandrum

Db	672	AATNANAATCATTATTATATATATTTTCATTATAATATATTAATNTNTTAAAAATAATTTATAA	613
Qy	1565	TCTATATTTTAAACAATAAGCTGGTATAGTTTACAATATTATAAGAGATATGTTGTTCAAATT	1624
Db	612	TTNAATGGTATAAATAATAGTATTATTTATTTATAGTTTATTAATTAAGATGTACCAACC	553
Qy	1625	GAAGGGCAAAAGCCAGGTTTCAGCAATTTTCAAACTGTATGTACATTTAATAAAAAATAACTA	1684
Db	552	ATAATGCATAGCATTAGGGGGATGTACCCTAACTCTCAATTAATAAGTTTATTAATTA	493
Qy	1695	TAAATTAATAAAATTTATTTT	1704
Db	492	TTAAATTTAATTTTAAATTT	473

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RESULT 10
US-09-134-001C-1524
; Sequence 1524, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GFC-007
; CURRENT APPLICATION NUMBER: US/09/134.001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 1524
; LENGTH: 1983
; TYPE: DNA
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-1524

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Query Match	2.8%;	Score 47.6;	DB 4;	Length 1983;
Best Local Similarity	49.6%;	Pred. No. 0.0088;		
Matches 122;	Conservative 0;	Mismatches 124;	Indels 0;	Gaps 0;
QY 1301	TGAAGCACCATGTGATGCAATTCATAAAGTTGCCAAAAGTCAAAACAATACTGTACATGCAA	1360		
Db				
QY 96	TGAAGATTCTCTAATTAATAATACAAATTCAGATTAATATGGAACAACATCAATCACAAA	155		
Db				
QY 1361	CCAGAATTCAAAATAAATCCAGAATAGAGACCTTATATAAATGCAATTAATPACATGATAC	1420		
Db				
QY 156	AGAAACATCAAAAACAATCTGAAAAAGATGAATTTAAACAACGATGATCTTAACACGATTC	215		
Db				
QY 1421	TTTTGACATAATAAGCCATTTGGAAAACGGAAAGATTAGATACTAAATAACATTTCACATATC	1480		
Db				
QY 216	TGATGATAAAAAAGACACTTCTGCACACAGGACAAGACTCTAATAAACCATTTATCAGC	275		
Db				
QY 1481	TCITTTGTAATACAGTCACCTAAATGATGTAGTTACTTTTCCATGGTGGAAATTTTAATTA	1540		
Db				
QY 276	TGACTCAACACATCGTAACATAAAAATGAAAGATGATAATTTAGTTGATCAACATTTATGA	335		
Db				
QY 1541	CTTTTTT	1546		
Db				
QY 336	TAATTT	341		
Db				

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RESULT 11
US-08-883-795A-36
; Sequence 36, Application US/08883795A
; Patent No. 5985607
; GENERAL INFORMATION:
; APPLICANT: Delcuve, Genevieve
; APPLICANT: Awang, Gregor
; TITLE OF INVENTION: Recombinant DNA Molecules and Expression
; TITLE OF INVENTION: Vectors for Tissue Plasminogen Activator
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
;

```

ADDRESSEE: BERESKIN & PARR
STREET: 40 King Street West
CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5H 3Y2

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/883,795A
FILING DATE: 27-JUN-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Gravelle, Micheline
REGISTRATION NUMBER: 40,261
REFERENCE/DOCKET NUMBER: 7841-062
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 364-7311
TELEFAX: (416) 361-1398
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 665 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
IMMEDIATE SOURCE:
CLONE: Rh 32
US-08-883-795A-36

Query Match	2.7%;	Score 45.6;	DB 2;	Length 665;
Best Local Similarity	50.0%;	Pred. No. 0.018;		
Matches 170;	Conservative 0;	Mismatches 164;	Indels	
Qy 1367	ATCAAAATAAAATCCAGAAATAGAGACCTATATAATGCATTATAATACATGATACATCT			
Db	26 ATAAATTAATATTTTATAATTAATAATATTTATAATTAATAATATTTATAATTTAAAT			
Qy 1427	CATAATAAGCCATTGGAAAAACGGAAGATTAGATACATAAATCAACATTGACTATCTCT			
Db	86 ATAAATTAATAATTTATAATTAATAATTTTATAATTAATAATTTTATAATTTAAAT			
Qy 1487	TAAATACAGTCACT--AAATGATGTTAGTTACTTTTCCATGGTGGAAATTTTAAATTT			
Db	146 ATAAATTAATAATTTTATAATTAATAATTTTATAATTAATAATTTTATAATTTAAAT			
Qy 1545	TTCTTTTGTAATTTTCTCTCGTATATTTTAAACAAATAGCTGGTATAGTTTACAA			
Db	206 ATAAATTAATAATTTTATAATTAATAATTTTATAATTAATAATTTTATAATTTAAAT			
Qy 1605	ATAAAGATATTGTTCCAAATTTGAAGGGCAAAGGCCAGGTTTCAGCAATTTTCAAAC			
Db	266 ATAAATTAATAATGTTTATAATTAATAATTTTATAATTAATAATTTTATAATTTAAAT			
Qy 1665	TACATTTAATAAATAACTATATAATTAATAATTAATAATTTATATTTT 1704			
Db	322 TTTTATAAATTAATAATGTTTATAATTAATAATTAATAATTTTATAATTT 36			

RESULT 12
US-08-451-405A-2
; Sequence 2, Application US/08451405A
; Patent No. 5736358
; GENERAL INFORMATION:
; APPLICANT: FASEL, NICOLAS JOSEPH
; APPLICANT: REYMOND, CHRISTOPHE DOMINIQUE
; TITLE OF INVENTION: DICTYOSTELID EXPRESSING
; TITLE OF INVENTION: METHOD FOR EXPRESSING A DESIRED PROTEIN
; AND

NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: THE WEBB LAW FIRM
STREET: 700 KOPPERS BUILDING, 436 SEVENTH AVENUE
CITY: PITTSBURGH
STATE: PENNSYLVANIA
COUNTRY: UNITED STATES OF AMERICA
ZIP: 15219-1818
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" FLOPPY DISK
COMPUTER: Midwest Micro 486-50
OPERATING SYSTEM: DOS
SOFTWARE: WORDPERFECT 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/451,405A
FILING DATE: 26-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,273
FILING DATE: 15-JAN-1993
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 731
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
TOPOLOGY: UNKNOWN
US-08-451-405A-2

Query Match 2.6%; Score 44.6; DB 1; Length 731;
Best Local Similarity 43.7%; Pred. No. 0.034;
Matches 197; Conservative 0; Mismatches 254; Indels 0; Gaps 0;
QY 1113 ATTATATATATGACATTAATTTGCAATTTATTTCAAAATTAATTAATTTGAGGACATGTAAT 1172
DB 10 ATTTTGTGTTCTTAATATTTGGTTAAATGATGAATTAATTAATTTGATTAATATGTTT 69
QY 1173 CTTTGAGCAATCGATTTTGGGAGTCCCTTAAGTTTCAATTTATCAATATA 1232
DB 70 TTTTTCCTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 129
QY 1233 TTTACTAGTATAGATGATTCAGAAACAAAGAAATTCACAGATTAGATGCTGG 1292
DB 130 TTTCTATTGAGAGATTTTATTTGATTTAAATATATTAATTAACATAGTAACATAA 189
QY 1293 CTGCTGATGAGACCAATGATGATTCATAAGTTGCAAAAGTCAAAATCAATACGT 1352
DB 190 AATGATTTGAGAGGATATGATAGAAATTTCTAAAAAAATTCAGTAATTTTG 249
QY 1353 ACATGCAACGGAATCAAAATTAATCCAGAAATAGAGACCTATTAATGCAATTTATA 1412
DB 250 GATTGAAACCAACCAAAAAAAGGATTTAAAGAAATTTTAAATTTTAAATTTTAAAT 309
QY 1413 CATGATCTTTTGAATTAAGCCATTTGAAAAAGGAAATTAATGATTAATTAATCAAT 1472
DB 310 AAAAAATTAATCAAAAAAAGGATTTAAAGAAATTTTAAATTTTAAATTTTAAAT 369
QY 1473 TGACTATCTTTTGAATTAAGCCATTTGAAAAAGGAAATTAATGATTAATTAATCAAT 1532
DB 370 ATCTTTAATTTGCAAAACACATTTTAACACATCTTAATCTTAACAAAGGTTAAAT 429
QY 1533 TTTAATTAATTTTCTTTGTAATTTTCTCT 1563
DB 430 TTTAATTTTATTTAATTAATTTATTTT 460

RESULT 13
US-07-867-106-2/c
Sequence 2, Application US/07867106
Patent No. 5389526
GENERAL INFORMATION:
APPLICANT: Slade, Martin B
APPLICANT: Chang, Andy C M
APPLICANT: Williams, Keith L

TITLE OF INVENTION: Improved Plasmid Vectors for Cellular
TITLE OF INVENTION: Slime Moulds of the Genus Dictyostelium
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5389526r1s
STREET: One Liberty Place 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/867,106
FILING DATE: 19920625
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU PJ 7187
APPLICATION NUMBER: PCT/AU90/00530
FILING DATE: 02-NOV-1989
ATTORNEY/AGENT INFORMATION:
NAME: Feeney, Joanne Longo
REGISTRATION NUMBER: 35,134
REFERENCE/DOCKET NUMBER: RICE-0002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 5852 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 2378..5038
FEATURE:
NAME/KEY: CDS
LOCATION: 2378..5038
US-07-867-106-2

Query Match 2.6%; Score 44; DB 1; Length 5852;
Best Local Similarity 49.7%; Pred. No. 0.11;
Matches 196; Conservative 0; Mismatches 190; Indels 8; Gaps 3;
QY 1192 TTTTGGAGTCTTTTAAAAAGTTACAAATTTATCAATTAATTTACTGATAGATAGATGA 1251
DB 2378 TTTTAAAAATCTTTGAAATTAATTAACCAAACTATTTAATTAATTAATTAATTAATGA 2319
QY 1252 TTCGAAACAAAGAAATTCACAGATTAGATGCTGCTGCTGCTGATAGACCAT 1311
DB 2318 AT-TTACATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 2260
QY 1312 GTGATGAATTCATTAAGTTGCAAAAGTCAAAATTAATCTGTCATGCAACAGAAATCAA 1371
DB 2259 AAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 2200
QY 1372 AATAATTCAGAAATAGAGACCTATTAATTAATTAATTAATTAATTAATTAATTAATTA 1431
DB 2199 AATAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 2140
QY 1432 TAAGCATTTGAAAAAGGAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1491
DB 2139 T-----TTATAATTAAGGATTAATTAATTAATTAATTAATTAATTAATTAATTA 2085
QY 1492 ACAGTCATAA--TGATGTTAGTTACTTTTCCATGAGGAAATTTAATTAATTAATTTCTT 1549
DB 2084 AATCAAAAAAAGCAAAAGTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2025

GenCore version 5.1.3
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Searched: 381593 seqs, 216252194 residues

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Maximum Match 100%
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- 3: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
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- 11: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/2/pubpna/US60_NEM_PUB.seq.*
- 13: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	208.8	26.0	1662	9 US-10-095-139-6	Sequence 6, Appl1
2	208.8	26.0	2865	9 US-10-095-139-4	Sequence 4, Appl1
3	165.2	20.5	265	10 US-09-960-352-3386	Sequence 3386, Ap
4	160.4	20.0	540	10 US-09-864-761-8860	Sequence 8860, Ap
5	136.2	16.9	339	10 US-09-864-761-25526	Sequence 25526, A
6	130.8	16.3	1316	9 US-10-050-786-3	Sequence 3, Appl1
7	110.2	13.7	401	10 US-09-833-381-2007	Sequence 2007, Ap
8	89.8	11.2	2227	10 US-09-917-800A-1646	Sequence 1646, Ap
9	78.6	9.8	370	10 US-09-983-965-4511	Sequence 4511, Ap
10	62.6	7.8	1888	10 US-09-798-743A-4	Sequence 2, Appl1
11	59.4	7.4	1831	10 US-09-798-743A-2	Sequence 2, Appl1
12	43.6	5.4	454	10 US-09-764-887-47	Sequence 376, Appl
13	43.6	5.4	796	10 US-09-764-887-376	Sequence 945, App
14	38.4	4.8	810	10 US-09-974-300-945	Sequence 815, App
15	38	4.7	275	10 US-09-878-574-8151	Sequence 815, App
16	35.6	4.4	406	10 US-09-960-352-11064	Sequence 11064, A
17	35.6	4.4	2189	10 US-09-925-300-456	Sequence 456, App
18	35	4.4	302250	10 US-09-962-832-154	Sequence 154, App
19	34.6	4.3	395	9 US-09-894-844-45	Sequence 45, Appl

20	32.2	4.0	725	10 US-09-910-943-70	Sequence 70, Appl
21	4.0	4.0	453	10 US-09-560-863-967	Sequence 967, App
22	3.2	4.0	1135	10 US-09-974-300-1695	Sequence 1695, Ap
23	3.6	3.9	4527	10 US-09-901-940-3	Sequence 3, Appl1
24	31.4	3.9	4858	10 US-09-954-456-733	Sequence 733, App
25	31.2	3.9	437	10 US-09-864-761-4863	Sequence 4863, Ap
26	31.2	3.9	852	10 US-09-815-242-9965	Sequence 9965, Ap
27	31.2	3.9	25871	10 US-09-798-743A-5	Sequence 5, Appl1
28	31.2	3.9	197997	10 US-09-822-246-3	Sequence 3, Appl1
29	31	3.9	1312	10 US-09-764-847-1515	Sequence 1515, Ap
30	31	3.9	2676	9 US-09-938-842A-1919	Sequence 1919, Ap
31	31	3.9	62804	12 US-10-096-960-3	Sequence 3, Appl1
32	30.8	3.8	1870	9 US-09-938-842A-2756	Sequence 2756, Ap
33	30.6	3.8	406	10 US-09-983-965-5140	Sequence 5140, Ap
34	30.6	3.8	2000	9 US-09-938-842A-4409	Sequence 4409, Ap
35	30.6	3.8	2019	10 US-09-801-368-199	Sequence 199, App
36	30.6	3.8	174493	10 US-09-804-471A-3	Sequence 3, Appl1
37	30.4	3.8	349	10 US-09-853-386-48	Sequence 48, Appl
38	30.4	3.8	432	9 US-09-924-400-176	Sequence 176, App
39	30.4	3.8	432	10 US-09-810-936-176	Sequence 176, App
40	30.4	3.8	432	10 US-09-429-755-176	Sequence 4547, Ap
41	30.4	3.8	1563	10 US-09-974-300-4547	Sequence 3, Appl1
42	30.4	3.8	3820	10 US-09-954-043-3	Sequence 87, Appl
43	30.4	3.8	3980	12 US-10-002-600-87	Sequence 890, Ap
44	30.2	3.8	305	10 US-09-960-352-890	Sequence 4018, Ap
45	30	3.7	278	10 US-09-923-876-4018	

ALIGNMENTS

RESULT 1
US-10-095-139-6
Sequence 6, Application US/10095139
Patent No. US20020165357A1
GENERAL INFORMATION:
APPLICANT: Curtis, Rory A.J.
APPLICANT: Silius-Santiago, Inmaculada
TITLE OF INVENTION: 3854, 57301, and 58324, Human Organic
FILE REFERENCE: MP101-017P1RNM
CURRENT FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: US/10/095,139
CURRENT FILING DATE: 2002-03-11
PRIOR APPLICATION NUMBER: 60/275,172
NUMBER OF SEQ ID NOS: 24
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 1662
TYPE: DNA
ORGANISM: homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(1662)
OTHER INFORMATION: n represents ambiguous nucleotides
NAME/KEY: misc_feature
LOCATION: (1)...(1662)
OTHER INFORMATION: n = A,T,C or G
US-10-095-139-6
Query Match
Best Local Similarity 63.2%; Pred. No. 1.2e+53;
Matches 321; Conservative 0; Mismatches 187; Indels 0; Gaps 0;
QY 1 ATGGCCTTGAGGAGCTCTTGAAGTTCAGAGGCTTGGAGATTGAGAGCTTCAT 60
DB 1 ATGGCCTTGAGGAGCTCTTGAAGTTCAGAGGCTTGGAGATTGAGAGCTTCAT 60
QY 61 CTGTTTCTTCT 120
DB 61 ACAGTGGCTTGATGCTTCATCATGCTGTGACCCAGAGCATGCTGAGACTTC 120

QY 121 GCTGAGCCATTCCTGGTCATCGTTGGTCCATGCTGGGACCAATATCTGGATCT 180
Db 121 TCGCCGCGCTGCCAGCCACCGTCTGGGCAACCCCTCTGGGACCAACAGCAGCGCTCAG 180
QY 181 GGTAAATGAACACTGGAATCTCTAGTGAAGATGCCCTCTTGGAAATCTCTATCCCACTAGAC 240
Db 181 GCCAGCATCTAGGGAGCTTGAATCTCTAGGAGCCCTCTGCTATTTCCATCCCGCCGGGC 240
QY 241 TCAATCTGAGGCCAGAGAGTGTGCTGCTTGTGCTTGTGCTATCCCACTAGCTTCTTAC 300
Db 241 CCCAACAGAGGCCCAACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
QY 301 CTGAATGGACTATCCACAGCAACAGTGAAGGAGAGACACAAACCTGTGTGGATGGTGG 360
Db 301 CCCAATGCCAGGCCCAACAGTGAAGGAGAGCCCAACAGTGAAGGAGAGTGTGGATGGTGG 360
QY 361 GTATATGATCAAGCTACTTCCCTTCGACCATTTGCTGACTAAGTGGAGCTTGTGTATGAT 420
Db 361 GTCTATGACCGAGCATCTTCACTCCCAATCGTGGCAAGTGAACCTCGTGTGTGAC 420
QY 421 TATCAGTCACTGAAATCAGTGTTCATTCCTACTTCTGACTGGAATGCTGTGGGAGGC 480
Db 421 TCTCATGCTCTGAAGCCCAATGCCAGTCCATCTACCTGGCTGGGATTTCTGTGGAGCT 480
QY 481 ATCATAGTGGCCATGTCTCAGACAGGT 508
Db 481 GCTGCGTGGGCCCTGCTCAGACAGGT 508

RESULT 2

US-10-095-139-4
; Sequence 4, Application US/10095139
; Patent No. US20020165357A1
; GENERAL INFORMATION:
; APPLICANT: Curtiss, Rory A.J.
; APPLICANT: Silos-Santiago, Inc.
; APPLICANT: Millennium Pharmaceuticals, Inc.
; TITLE OF INVENTION: 38534, 57301, and 58324, Human Organic
; FILE REFERENCE: MP101-017P1RNM
; CURRENT APPLICATION NUMBER: US/10/095,139
; PRIOR FILING DATE: 2002-03-11
; PRIOR FILING DATE: 2002-03-11
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 2866
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (365)...(2026)
; OTHER INFORMATION: "n" represents ambiguous nucleotides
; NAME/KEY: misc.feature
; LOCATION: (1)...(2866)
; OTHER INFORMATION: n = A,T,C or G

US-10-095-139-4

Query Match 26.0%; Score 208.8; DB 9; Length 2866;
Best Local Similarity 63.2%; Pred. No. 1.6e-53;
Matches 321; Conservative 0; Mismatches 187; Indels 0; Gaps 0;
QY 1 ATGGCGCTTGGAGAGCTCTGAGTCAAGTTGGAGGCTTGGGAGATTTCAGATGCTTCAT 60
Db 365 ATGGCATTTTCTGAATCTCTGAGCTTGGGAGGCTTGGGAGGTTCCAGGTTCTCCAG 424
QY 61 CTGGTTTTTATCT 120
Db 425 ACGATGGCTCTGATGCT 484
QY 121 GCTGAGCCATTCCTGGTTCATCGTTGGTGGTCCATGCTGGACCAATATCTGGATCT 180

Db 485 TCGCGCGCTGCCAGCCACCGTCTGGGCAACCCCTCTCTGGACCAACAGCAGCGCTCAG 544
QY 181 GGTAAATGAACACTGGAATCTCTAGTGAAGATGCCCTCTTGGAAATCTCTATCCCACTAGAC 240
Db 545 GCCAGCATCTAGGGAGCTTGAATCTCTAGGAGCCCTCTGCTATTTCCATCCCGCCGGGC 604
QY 241 TCAATCTGAGGCCAGAGAGTGTGCTGCTTGTGCTTGTGCTATCCCACTAGCTTCTTAC 300
Db 505 CCCAACAGAGGCCCAACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 664
QY 301 CTGAATGGACTATCCACAGCAACAGTGAAGGAGAGACACAAACCTGTGTGGATGGTGG 360
Db 665 CCCAATGCCAGGCCCAACAGTGAAGGAGAGCCCAACAGTGAAGGAGAGTGTGGATGGTGG 724
QY 361 GTATATGATCAAGCTACTTCCCTTCGACCATTTGCTGACTAAGTGGAGCTTGTGTATGAT 420
Db 725 GTCTATGACCGAGCATCTTCACTCCCAATCGTGGCAAGTGAACCTCGTGTGTGAC 784
QY 421 TATCAGTCACTGAAATCAGTGTTCATTCCTACTTCTGACTGGAATGCTGTGGGAGGC 480
Db 785 TCTCATGCTCTGAAGCCCAATGCCAGTCCATCTACCTGGCTGGGATTTCTGTGGAGCT 844
QY 481 ATCATAGTGGCCATGTCTCAGACAGGT 508
Db 845 GCTGCGTGGGCCCTGCTCAGACAGGT 872

RESULT 3

US-09-960-352-3386/c
; Sequence 3386, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION ANI
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 3386
; LENGTH: 265
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 15-LIB3058-028-Q1-K1-D3
US-09-960-352-3386

Query Match 20.5%; Score 165.2; DB 10; Length 265;
Best Local Similarity 77.5%; Pred. No. 8.8e-41;
Matches 200; Conservative 0; Mismatches 58; Indels 0; Gaps 0;
QY 72 TCTTCCCTCTCTCATGTTATTAAATCCCTCATATATCTGCTAGAGAACTTTGCTGACCCAT 131
Db 264 TTTTCTCTTTTACATGATAGTAGTCTGTCTCTATTTCTGGAGAACTTCACTGCAACCGT 205
QY 132 TCCTGGTCATCGTTGCTGGGTCCACATGCTGGACAATAATCTGGATCTGGTAATGAAAC 191
Db 204 TCCTGGTCATCACTGCTGGGTCCACAATCTTGATAATGCCACTGTCTCTGATTAATGATAC 145
QY 192 TGAATCTCTCAGTGAAGATGCCCTCTTGAATCTCTATCCCACTAGACTCAATCTGAT 251
Db 144 TGGATCTCTCAGCCCTGATGCTGCTGAGAAATCTCAATCCCACTGGATTCAAACTCAA 85
QY 252 GCCAGAGAGTGTGCTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTG 311
Db 84 GCCAGAGAGATGCTGCTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTG 25
QY 312 TATCCACAGCACAAAGTGA 329
Db 24 CTTCCTCCCAATGACTGA 7

RESULT 4

US-09-664-761-8860/c
Sequence 8860, Application us/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Aecmics-X-1
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 8860
LENGTH: 540
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC012153.10
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 6
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 7.2
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 5.7
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 7
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 6.1
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 6.9
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.8
US-09-664-761-8860

Query Match 20.0%; Score 160.4; DB 10; Length 540;
Best Local Similarity 62.4%; Pred. No. 3,8e-39;
Matches 251; Conservative 0; Mismatches 151; Indels 0; Gaps 0;

Qy 1 ATGGCTTTGAGAGAGCTCTTGAGTCAAGTTGAGGCGCTTGGAGATTTCAGATGCTTAT 60
Db 533 ATGGCATTTTCTGAAGTCTTCTGAGCTGAGCTGGGCGAGGTTCCAGGTTCTCCAG 474
Qy 61 CTGGTTTATTTCTTCCCTCTCTCTATGTTATTAATCCCTCATATCTGTAGAACTTT 120
Db 473 ACATGGCTCTGATGCTTCTTCTATCATATGCTGTGTACCCAGAGCATGTGTAGAACTTT 414
Qy 121 GCTGAGGAGTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
Db 413 TCGGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 354
Qy 181 GGTATGAACTGAAATCTCAAGTGAAGATGCTTCTGAGATCTTATCCACTAGAC 240
Db 353 GCGAGCATCTTGAAGAGGCTTGAAGTCTTGAAGGCTTCTGAGGCTTCTGAGTCTTCTGAG 294
Qy 241 TCAATCTGAGGCGCAGAGAGTGTGTGCTTGTTCATCCAGTGGAGGCTTCTTAC 300
Db 293 CCAACGAGAGGCGCCACAGTGGCGGCTTCCGCGAGCCAGAGTGGAGGCTTCTTGGAC 234
Qy 301 CTGAATGGAGTATCCACAGCAGCAAGTGAAGGAGCAGACAGAACTGTGTGATGGCTGG 360
Db 233 CCAATGCCAGGCGCCACAGTGGAGGCGGCGGAGGCGGAGGAGGCGGTGTGTGATGGCTGG 174
Qy 361 GTATATGATCAAGCTACTTCTCTTCCCTTCCACTTGTGACTTAA 402
Db 173 GTCTATGACCGCAGCATCTTCACTTCCACATCTGTGCCAAG 132

RESULT 5

US-09-664-761-25526/c
Sequence 25526, Application us/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Aecmics-X-1
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30

;; PRIOR APPLICATION NUMBER: US 60/234,687
;; PRIOR FILING DATE: 2000-09-21
;; PRIOR APPLICATION NUMBER: US 09/608,408
;; PRIOR FILING DATE: 2000-06-30
;; PRIOR APPLICATION NUMBER: US 09/774,203
;; PRIOR FILING DATE: 2001-01-29
;; NUMBER OF SEQ ID NOS: 49117
;; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
;; SEQ ID NO 25526
;; LENGTH: 339
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; OTHER INFORMATION: MAP TO AC012153.10
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 6
;; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 7.2
;; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 5.7
;; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 7
;; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5
;; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 6.1
;; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 6.9
;; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.8
;; OTHER INFORMATION: NT HIT: gill441373, EVALUE 6.00e-79
;; OTHER INFORMATION: SWISSPROT HIT: Q920E8, EVALUE 3.00e-05
;; OTHER INFORMATION: EST_HUMAN HIT: BF196052.1, EVALUE 1.00e-89
US-09-864-761-25526

Query Match 16.9%; Score 136.2; DB 10; Length 339;
Best Local Similarity 63.7%; Pred. No. 7.2e-32;
Matches 207; Conservative 0; Mismatches 118; Indels 0; Gaps 0;
QY 78 CTCTCTCATGTTAATATCCCTATATCTGCTAGAGAACTTTGTGCGAGCCATTCTCTGG 137
DB 325 CTCATCATCTGCTGTGTATCCAGAGCATGCTGAGAACTTCTCGGCCGCGTCCAG 266
QY 138 TCATCGTTGCTGGTCCACATGCTGGACAATAATCTGGATCTGGTAAATGGAAT 197
DB 265 CCACCGCTGCTGGGACCCCTCTCTGGACAACAGCAGCGCTCAGGCCAGCATCTAGGGAG 206
QY 198 CCTCAGTGAAGATGCCCTCTTGAAGATCTCTATCCCACTAGACTCAAACTGAGGCCAGA 257
DB 205 CTTGAGTCTGAGGCCCTCTCTGCTATTTCCATCCCGCGGCCCAACAGAGCCCA 146
QY 258 GAAGTCTGCTGCTTTGTCATCCCACTGCGAGCTTCTTCACTGAATGGGACTATCCA 317
DB 145 CCAGTCCCGCCGCTTCCGCCAGGCACAGTGGCAGCTCTTGGACCCCAATGCCAGGCCAC 86
QY 318 CAGCAAGTGAAGCCAGACACAGAACCTCTGTGGATGGCTGGTATGATCAAGCTA 377
DB 85 CAGCTGAGCGAGCCGACAGCGAGCGCTGTGTGGATGGCTGTATGACCGCAGCAT 26
QY 378 CTTCCCTTCGACCAATGTGACTAAG 402
DB 25 CTTACCTCCACAATCGTGGCCAAG 1
RESULT 6
US-10-050-786-3
;; Sequence 3, Application US/10050786
;; Patent No. US2002015539A1
;; GENERAL INFORMATION:
;; APPLICANT: Ruben et al
;; TITLE OF INVENTION: Calcium Channel Polynucleotides, Polypeptides, and Antibodies
;; CURRENT APPLICATION NUMBER: US/10/050,786
;; PRIOR FILING DATE: 2002-01-18
;; PRIOR APPLICATION NUMBER: US 09/774,028
;; PRIOR FILING DATE: 2001-01-31
;; PRIOR APPLICATION NUMBER: PCT/US00/20392
;; PRIOR FILING DATE: 2000-07-27
;; PRIOR APPLICATION NUMBER: US 60/145,958
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: US 60/149,446

;; PRIOR FILING DATE: 1999-08-18
;; PRIOR APPLICATION NUMBER: US 60/189,064
;; PRIOR FILING DATE: 2000-03-14
;; NUMBER OF SEQ ID NOS: 12
;; SOFTWARE: PatentIn Ver. 3.1
;; SEQ ID NO 3
;; LENGTH: 1316
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-10-050-786-3

Query Match 16.3%; Score 130.8; DB 9; Length 1316;
Best Local Similarity 95.1%; Pred. No. 6.9e-30;
Matches 135; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 619 CTGAACATAGAGGTTCTAAGATCCACCATCGAGGAGGCTGGATGCGACAGACACCAAA 678
DB 9 CTGAACATAGAGGTTCTAAGATCCACCATCGAGGAGGCTGGATGCGACAGACACCAAA 68
QY 679 ACTACTGTGTGACTGTTCGCAACCCCAAGTATGCGTAAAGGATCTGTATCTCTGTA 738
DB 69 ACTACTGTGTGACTGTTCGCAACCCCAAGTATGCGTAAAGGATCTGTATCTCTGTA 128
QY 739 TTTTGTGAGAAAAAATCTCAA 760
DB 129 TTTTGTGAGATTTGCAACACAA 150

RESULT 7
US-09-833-381-2007/c
;; Sequence 2007, Application US/09833381
;; Patent No. US20020132090A1
;; GENERAL INFORMATION:
;; APPLICANT: Robison, Keith E.
;; TITLE OF INVENTION: NO. US20020132090A1el Nucleic Acid and Protein Homologs
;; FILE REFERENCE: 5800-119
;; CURRENT APPLICATION NUMBER: US/09/833,381
;; CURRENT FILING DATE: 2001-04-11
;; PRIOR APPLICATION NUMBER: 09/516,448
;; PRIOR FILING DATE: 2000-02-29
;; NUMBER OF SEQ ID NOS: 2050
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 2007
;; LENGTH: 401
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: misc_feature
;; LOCATION: (1)...(401)
;; OTHER INFORMATION: n = A,T,C or G
US-09-833-381-2007

Query Match 13.7%; Score 110.2; DB 10; Length 401;
Best Local Similarity 73.9%; Pred. No. 6.9e-24;
Matches 164; Conservative 0; Mismatches 56; Indels 2; Gaps 2;
QY 315 CCACAGCACAAAGTGAAGGAGGACAC-AGAACCTCTGTGGATGGCTGGGTATATGA-TCAA 372
DB 390 CCCCAACAAATAGCCAGCAGCAGNAGCCCTGTGTGGATGGCTGGGTATATGA-TCAA 331
QY 373 AGCTACTTCCCTTCGACCATTTGTGACTAAAGTGGGACCTGGTATGTGATTATCAGTCACATG 432
DB 330 AGCTCTTTCTCTCCACCATCTGACTGAGTGGGACCTGGTATGTGAATCTCAGTCACATG 271
QY 433 AAATCAGTGGTTCATTTCTTCTGACTGGAATGCTGTGGGAGGATCATAGGTGGC 492
DB 270 AAATCAATGGTTCAATCCCTATTATGCTGGGTCCTGCTGGGAGGCTCTAATATATGTC 211
QY 493 CATGTCTTCACAGAGGTGGTGGTGAATCTGCTCGGTGGTGG 534
DB 210 CATCTTTCACAGAGCTCTGCTCTCAGTCTCTTCTCGGTGGTGG 169

RESULT 8

US-09-917-800A-1646
Sequence 1646, Application US/09917800A
Patent No. US20020119462A1
GENERAL INFORMATION:
APPLICANT: Mendrick, Donna
APPLICANT: Porter, Mark
APPLICANT: Johnson, Kory
APPLICANT: Castle, Arthur
APPLICANT: Elashoff, Michael
APPLICANT: Gene Logic, Inc.
TITLE OF INVENTION: Molecular Toxicology Modeling
FILE REFERENCE: 44921-5038-US
CURRENT FILING DATE: 2001-07-31
PRIOR APPLICATION NUMBER: US 60/222,040
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: US 60/222,880
PRIOR FILING DATE: 2000-11-02
PRIOR APPLICATION NUMBER: US 60/290,029
PRIOR FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: US 60/290,645
PRIOR FILING DATE: 2001-05-15
PRIOR APPLICATION NUMBER: US 60/292,336
PRIOR FILING DATE: 2001-05-22
PRIOR APPLICATION NUMBER: US 60/295,798
PRIOR FILING DATE: 2001-06-06
PRIOR APPLICATION NUMBER: US 60/297,457
PRIOR FILING DATE: 2001-06-13
PRIOR APPLICATION NUMBER: US 60/298,884
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: US 60/303,459
PRIOR FILING DATE: 2001-07-09
NUMBER OF SEQ ID NOS: 1740
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1646
LENGTH: 2227
TYPE: DNA
ORGANISM: Rattus norvegicus
FEATURE:
OTHER INFORMATION: Genbank Accession No. US20020119462A1 NM_017224
US-09-917-800A-1646

Query Match 11.2%; Score 89.8; DB 10; Length 2227;
Best Local Similarity 52.7%; Pred. No. 3.1e-17;
Matches 267; Conservative 0; Mismatches 207; Indels 33; Gaps 2;

1 ATGGCCTTTGAGAGCTCTTGAGTCAAGTGGAGGCTTGGAGATTTCAGATGCTTCAT 60
254 ATGGCCTTCAATGACCTCTGAAACAGTGGGGGCGTGGACGCTTCAAGTTGATCAG 313
61 CTGGTTTATTTCTCCCTCTCTCATGTTATTAATCCCTCATATATCTGTAGAACTTT 120
314 GTCAACCATGGTGGTGGTCCCTCTACTGCTGATGGCTTCCACMACACCTTGAGAACTTC 373
121 GCTGCACCAATTCCTGGTGCATGTTGCTGGGTCCACATGCTGGAACAATAATGATGATCT 180
374 ACTGCGCTATCCCCCTCATCACTGCGCCACC----- 408
181 GGTATGAACTGGAATCTCATGTAAGATGCCCTTGGAGATCTATCCCACTAGAC 240
409 -----TCCCATGCGCAATCTCAGCAAAAGATGAGGTGGAAGCTGCGCTGCGCCGAGAC 463
241 TCAATCTGAGCCAGAGAGTGTGTGCTTTTTCATCCCAAGTGGAGCTTCTTAC 300
464 AAGCAGAGCAACCGAATCTGCTTCTTACTTCCCAAGTGGAGCCACCCCTTT 523
301 CTGATGGAGATATCCACAGCAAGTGGAGAGACAGAACCCCTGTGTGATGCTGG 360
524 TACAATGGCAC---AGAGCCATATGACACAGAGTACAGAGCCCTGCAATGATGCTGG 580
361 GTATATGATCAAGCTACTTCCCTTGCACCATGTGACTAAGTGGAGCTGTATGTAT 420

RESULT 9

US-09-983-965-4511
Sequence 4511, Application US/09983965
Patent No. US20020137160A1
GENERAL INFORMATION:
APPLICANT: Warren, Wesley C.
APPLICANT: Tao, Nengping
APPLICANT: Byatt, John C.
APPLICANT: Mathialagan, Nagappan
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
FILE REFERENCE: 37-21(10297)C
CURRENT FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: US 09/465,231
PRIOR FILING DATE: 1999-12-15
PRIOR APPLICATION NUMBER: US 60/113,678
PRIOR FILING DATE: 1998-12-17
NUMBER OF SEQ ID NOS: 5912
SEQ ID NO 4511
LENGTH: 370
TYPE: DNA
ORGANISM: Bos taurus
FEATURE:
OTHER INFORMATION: Clone ID: 08-LIB34-012-Q1-E1-B7
US-09-983-965-4511

Query Match 9.8%; Score 78.6; DB 10; Length 370;
Best Local Similarity 57.6%; Pred. No. 2.9e-14;
Matches 141; Conservative 0; Mismatches 104; Indels 0; Gaps 0;

1 ATGGCCTTTGAGAGCTCTTGAGTCAAGTGGAGGCTTGGAGATTTCAGATGCTTCAT 60
126 ATGGGCTAGCTGAGACATCTAGCACTTTAGGGGATGTTATATCTCAAAATCATCAG 185
61 CTGGTTTATTTCTCCCTCTCTCATGTTATTAATCCCTCATATATCTGTAGAACTTT 120
186 ATGATTAACCTTCTCTCTCTGCAAGCTCATCTGTGCGGTGGATTTGTTAACTTC 245
121 GCTGCAGCAATTCCTGATCGTCTGAGTCCACATGCTGACATGTAATAATCTGATCT 180
246 AGGATGTGATATCATATCAACCTTGAGGGTCTCCATATGATTTGACACATGCTCT 305
181 GGTATGAACTGGAATCTCTCACTGAAGATGCGCTTGGAGATCTATATCCCACTAGAC 240
306 GAAGTAGTACAGACTCATCACTCGGATGTTTACCAAGATTTCTATATCCCACTGAT 365
241 TCAAA 245
366 TCATA 370

RESULT 10

US-09-798-743A-4
Sequence 4, Application US/09798743A
Patent No. US2002009093A1
GENERAL INFORMATION:
APPLICANT: Nezu, Jun-ichi
APPLICANT: Ose, Asuka
TITLE OF INVENTION: SYSTEMIC CARBONIC DEFIENCY GENE AND USES THEREOF
FILE REFERENCE: 06501-073001
CURRENT APPLICATION NUMBER: US/09/798,743A

```
; CURRENT FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: PCT/JP99/04853
; PRIOR FILING DATE: 1999-09-07
; PRIOR APPLICATION NUMBER: JP 10-252683
; PRIOR FILING DATE: 1998-09-07
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 1888
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (60)..(1730)
US-09-798-743A-4

Query Match      7.8%; Score 62.6; DB 10; Length 1888;
Best Local Similarity 56.6%; Pred. No. 5.7e-09;
Matches 116; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

QY 340 GAACCTGTGTGGAGCTGGGTATATGATCAAGCTACTTCCCTTCGACCATTTGACT 399
Db 390 GAGAGCTGCTGGATGGCTGGGAGTACGACAGAGAGCTCTTCTGTCCACCATGTCGACA 449
QY 400 AAGTGGGACCTGGTATGCTGATTTATCAGTCACTGAAATCAGTGGTTCAATTCCTACTTCTG 459
Db 450 GAGTGGGACCTGGTGTGTAAGATGACTGGAAGCCCCACTCACCACCTCTTGTGTTTC 509
QY 460 ACTGNAATCTGTGGGAGGATCATAGTGGCCATGTCTCAGACAGGTGGCTGGTGAA 519
Db 510 GTGGGTGTCTGTATGGCTCCCTTCAITTCAGGACAGCTCTCAGACAGGTTTGGTCGCAAG 569
QY 520 TCTGCTCGGTGGTTGATAATCACCA 544
Db 570 AAATGCTGCTTTTGGACCATGGGCA 594

RESULT 11
US-09-798-743A-2
; Sequence 2, Application US/09798743A
; Patent No. US2002009903A1
; GENERAL INFORMATION:
; APPLICANT: Nezu, Jun-ichi
; TITLE OF INVENTION: SYSTEMIC CARNITINE DEFICIENCY GENE AND USES THEREOF
; FILE REFERENCE: 06501-073001
; CURRENT APPLICATION NUMBER: US/09/798,743A
; CURRENT FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: PCT/JP99/04853
; PRIOR FILING DATE: 1999-09-07
; PRIOR APPLICATION NUMBER: JP 10-252683
; PRIOR FILING DATE: 1998-09-07
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1831
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (124)..(1794)
US-09-798-743A-2

Query Match      7.4%; Score 59.4; DB 10; Length 1831;
Best Local Similarity 55.6%; Pred. No. 5.3e-08;
Matches 114; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

QY 340 GAACCTGTGTGGAGCTGGGTATATGATCAAGCTACTTCCCTTCGACCATTTGACT 399
Db 454 GAGAGCTGTCTGGATGGCTGGGAGTTCACTCAGGAGGCTTACCTGTCCACCATTTGACC 513
QY 400 AAGTGGGACCTGGTATGCTGATTTATCAGTCACTGAAATCAGTGGTTCAATTCCTACTTCTG 459

; CURRENT FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: PCT/JP99/04853
; PRIOR FILING DATE: 1999-09-07
; PRIOR APPLICATION NUMBER: JP 10-252683
; PRIOR FILING DATE: 1998-09-07
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 1888
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (60)..(1730)
US-09-798-743A-4

Query Match      7.8%; Score 62.6; DB 10; Length 1888;
Best Local Similarity 56.6%; Pred. No. 5.7e-09;
Matches 116; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

QY 340 GAACCTGTGTGGAGCTGGGTATATGATCAAGCTACTTCCCTTCGACCATTTGACT 399
Db 390 GAGAGCTGCTGGATGGCTGGGAGTACGACAGAGAGCTCTTCTGTCCACCATGTCGACA 449
QY 400 AAGTGGGACCTGGTATGCTGATTTATCAGTCACTGAAATCAGTGGTTCAATTCCTACTTCTG 459
Db 450 GAGTGGGACCTGGTGTGTAAGATGACTGGAAGCCCCACTCACCACCTCTTGTGTTTC 509
QY 460 ACTGNAATCTGTGGGAGGATCATAGTGGCCATGTCTCAGACAGGTGGCTGGTGAA 519
Db 510 GTGGGTGTCTGTATGGCTCCCTTCAITTCAGGACAGCTCTCAGACAGGTTTGGTCGCAAG 569
QY 520 TCTGCTCGGTGGTTGATAATCACCA 544
Db 570 AAATGCTGCTTTTGGACCATGGGCA 594

RESULT 12
US-09-764-887-47
; Sequence 47, Application US/09764887
; Patent No. US20020042096A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P113
; CURRENT APPLICATION NUMBER: US/09/764,887
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 658
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 454
; TYPE: DNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-09-764-887-47

Query Match      5.4%; Score 43.6; DB 10; Length 454;
Best Local Similarity 56.2%; Pred. No. 0.0016;
Matches 82; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

QY 1 ATGGCCCTTTGAGGAGCTCTTGAGTCAAGTTGGAGGCTTGGAGGATTTGAGATGCTTTCAT 60
Db 35 ATGGCTTTTGGAGGAGCTGCTGGAGCAGGTGGGCGCTTTGGCCCTTCCAACTGCGGAAT 94
QY 61 CTGGTTTATTTCTTCCCTCTCTCATGTATTATCCCTCATATATCTGCTAGAGAACTTT 120
Db 95 GTGGCACTGCTGGCCCTGCCCGAGTGTCTACCACTGCACCTTCTCTGCCATCTTC 154
QY 121 GCTGACGCCATTCCTGCTCATCGTTG 146
Db 155 CTGGCTGCCGTGCTGCCACCGAATG 180

RESULT 13
US-09-764-887-376
; Sequence 376, Application US/09764887
; Patent No. US20020042096A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: P113
; CURRENT APPLICATION NUMBER: US/09/764,887
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 658
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 376
; LENGTH: 796
; TYPE: DNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-09-764-887-376

Query Match      5.4%; Score 43.6; DB 10; Length 796;
Best Local Similarity 56.2%; Pred. No. 0.0022;
Matches 82; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

QY 1 ATGGCCCTTTGAGGAGCTCTTTGAGTCAAGTTGGAGGCTTGGAGGATTTGAGATGCTTTCAT 60
Db 34 ATGGGCTTTGAGGAGCTGCTGGAGCAGGTGGGCGCTTTGGGCCCTTCCAACTGCGGAAT 93
```

QY	61	CTGGTTTATTCCTCCCTGCTCATGTATTAATCCCTCA	120
		ATACGACGAGAGAACTT	
Db	94	GTGGCACTGCGTGGCCCTGGCCCGAGTCTGTGACAC	153
		CTGCACATTCCTCGCCACATTC	
QY	121	GCTGCAGCCATTCCTGATCATTCGTTG	146
Db	154	CTGGCTGCCGTGCTGCCCAACCATG	179

RESULT 14
ITE 00 074

```

US-09-974-300-945
; Sequence 945, Application US/09974300
; Patent No. US20020146721A1
;
; GENERAL INFORMATION:
;
; APPLICANT: Berka, Randy M.
; APPLICANT: Clausen, Ib Groth
; TITLE OF INVENTION: Methods For Monitoring Multiple Genes
; TITLE OF INVENTION: Expression
; FILE REFERENCE: 10085,500-US
; CURRENT APPLICATION NUMBER: US/09/974,300
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 09/680,558
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/279,526
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 8481
; SOFTWARE: FastSeq for Windows Version 4.0
;
; SEQ ID NO 945
; LENGTH: 810
;
; TYPE: DNA
;
; ORGANISM: Bacillus licheniformis
;
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1) ..(810)
; OTHER INFORMATION: n = A,T,C or G
;
; US-09-974-300-945

```

Query Match	4.8%	Score	38.4	DB	10	Length	810
Best Local Similarity	52.5%	Pred	No.	0.086			
Best Local Conservation							
Matches	84	Conservative	0	Mismatches	76	Indels	0
						Gaps	0

Qy 517 GACTCTGCTCGTGGTTGATATATACCAATAACTAGTAGGGCTTAAAGGCACTTGA 576
Db 35 GAACTACCAACGCTTTTATATAAAGACATATAACTGTGAGCTCCGAAAGGTCTTGAC 94
Qy 577 AAAGTTGACGCACAAAATGGAATAAAGATCTGTAGAGAAACCTCGAATAGAGGTTGA 636
Db 95 TATATTTGCTCTTACAAAGAGAGAGTTGATTTCTGTAAATTAAGCAAAATTCAGAAACTGCC 154
Qy 637 AGATCCACCATTCAGAGAGAGCTGGATCAGACAGCA 676
Db 155 AGAGAAAGACGAGGCAAAATCAAAATGCATCATGGGCTA 194

RESULT 15
TIC 00 070

```

: Sequence 8151, Application US/09878574
: Patent No. US20020110548A1
:
: GENERAL INFORMATION:
: APPLICANT: Byrum, Joseph R.
: APPLICANT: La Rosa, Thomas J.
: APPLICANT: Thompson, Michael D.
: TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
: TITLE OF INVENTION: Plants
: FILE REFERENCE: 38-21 (15401) B
: CURRENT APPLICATION NUMBER: US/09/878,574
: CURRENT FILING DATE: 2001-12-21
: PRIOR APPLICATION NUMBER: 09/333,535
: PRIOR FILING DATE: 1999-06-14
: NUMBER OF SEQ ID NOS: 15775
: SEQ ID NO 8151
:
: LENGTH: 275

```

```

; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: 701100815H11
US-09-878-574-8151

```

Query Match	4.7%;	Score 38;	DB 10;	Length 275;
Best Local Similarity	57.6%;	Pred. No. 0.062;		
Matches 68;	Conservative 0;	Mismatches 50;	Indels 0;	Gaps 0

QY 9 TGAAGAGCTCTTAGTGTCAAGTGTGAGCGCTGGAGATTTCAAGATGCTTCATCTGGATT 68
Db 101 TGTGAGCAATGGCCGATATTGTCAAACTTGGGAGACCTCCATGACTTCTCCGGATT 160
QY 69 TATTCTTCCCTCTCATGTTATTAAACCCGCAATATACGCTGTAGAGAACTTGGTGA 126
Db 161 CCTTCTGGCAATCTCTAAGCATTTCTTCACATCTTTAGTGTGATGTGTAATACTGA 218

Search completed: January 6, 2003, 22:51:06
Job time : 43.0945 secs

;; PRIOR APPLICATION NUMBER: 60/088,864
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/132,267
;; PRIOR FILING DATE: 1999-05-03
;; NUMBER OF SEQ ID NOS: 10
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 1
;; LENGTH: 2123
;; TYPE: DNA
;; ORGANISM: Unknown
;; FEATURE:
;; OTHER INFORMATION: Description of Unknown Organism: This information
;; OTHER INFORMATION: is not available.
;; NAME/KEY: CDS
;; LOCATION: (263)..(1912)
US-09-330-245A-1

Query Match 10.2%; Score 81.8; DB 4; Length 2123;
Best Local Similarity 51.7%; Pred. No. 1.5e-16;
Matches 262; Conservative 0; Mismatches 212; Indels 33; Gaps 2;
QY 1 ATGGCCCTTTGAGGAGCTCTTCAGTCAAGTTGGAGCCCTTGGAGATTTTCAGATGCTTCAT 60
Db 263 ATGGCCCTTTATGACCTCTCCAGCAGGTGGGGGTGCGCCGCTTCCAGCAGATCCAG 322
QY 61 CTGGTTTTTATCTTCCCTCTCTCATGTTATTATCCCTCATATATCTCTAGAGAACTTT 120
Db 323 GTCACCCCTGGTGCTCTCCCTCTCTCTGATGGCTTCTCAACACCCCTCGAGAACTTC 382
QY 121 GCTGACGCCATCTGTGTCATCGTTGCTGGGTCCACATGCTGGACAATAACTGATCT 180
Db 383 ACTGCTGCCATCCCTACCCCACTGCGCCGCC----- 417
QY 181 GGTAAATGAACCTGGAATCCCTCAGTGAAGATGCCCTCTTTGAAATCTCTATCCCACTAGAC 240
Db 418 -----TGCCGATGCCAACCTCAGCAAGAACCGGGGGCTGGAGGTCTGGCTCCCCGGGAC 472
QY 241 TCAAACTGAGGCGCAGAGAAAGTGTGCTGCTTTGTCATCCCACTGGCAGCTTCTTCCAC 300
Db 473 AGCAGGGCGAGCTGAGTCTGCTCGCTTCACTCCCGCAGTGGGAGTCCCTCTT 532
QY 301 CTGAATGGGACTATCCACAGCACAAGTGAGGACAGACAGAACCTGTGGATGGCTGG 360
Db 533 CTCNAATGGCACAAGCAAGCAATGACAGAGGCG---CACAGAGCCCTCCACCGATGGCTGG 589
QY 361 GTATATGATCAAGCTACTTCCCTTGCACCAATGTGACTAAGTGGGACCTGGTATGAT 420
Db 590 ATCTATGACAACAGCACCTTCCCATCTACCATCTGACTGAGTGGGACCTTGTGCTCT 649
QY 421 TATCAGTCACTGAATCAGTGGTTCAATTCCTACTTCTGACTGGAATGCTGGTGGGAGGC 480
Db 650 CACAGGGCCCTAGCGCAGCTGGCCCACTCTTGTATGTTGGGGGTGCTGCTCGGAGCC 709
QY 481 ATCATAGTGGCCATGTCTCAGACAGG 507
Db 710 ATGGGTTCGGGTACTCTTCAGACAGG 736

RESULT 3
US-09-572-147-1
; Sequence 1, Application US/09572147
; Patent No. 6420544
; GENERAL INFORMATION:
; APPLICANT: Lin Yue
; APPLICANT: John Feild
; APPLICANT: Harma Ellens
; TITLE OF INVENTION: POLYNUCLEOTIDE AND POLYPEPTIDE SEQUENCES
; TITLE OF INVENTION: ENCODING MURINE ORGANIC ANION TRANSPORTER 5 (moatp5) AND
; TITLE OF INVENTION: SCREENING METHODS THEREOF
; FILE REFERENCE: GP-70622
; CURRENT APPLICATION NUMBER: US/09/572,147
; CURRENT FILING DATE: 2000-05-17
; PRIOR APPLICATION NUMBER: 60/134,879

;; PRIOR FILING DATE: 1999-05-19
;; NUMBER OF SEQ ID NOS: 2
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 1
;; LENGTH: 1638
;; TYPE: DNA
;; ORGANISM: MUS MUSCULUS
US-09-572-147-1

Query Match 10.1%; Score 81; DB 4; Length 1638;
Best Local Similarity 66.1%; Pred. No. 2.4e-16;
Matches 117; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
QY 331 GCAGACACAGAACCTGTGTGGATGGCTGATATATGATCAAGCTACTTCCCTTCGACC 390
Db 280 GGAGTCACAGAGCCCTGCTTGTATGGCTGCTATGACACAGCACCTTCCCTTCACCC 339
QY 391 ATGTGACTAAGTGGGACCTGGTATGTGATTATCAGTCACTGAAATCAGTGGTTCAATTC 450
Db 340 ATCGTACTGAGTGAACCTTGTGTCTCTCATCGGCGCTTCCGCCAGCTGGCCAGTCC 399
QY 451 CTACTTCTGACTGGGAATGCTGTGGGAGGACATCATAGGTGGCCATGTCTCAGACAGG 507
Db 400 CTGTTCAATGGTGGAGTGTACTGGAGCCATGATGTTGGCTACCTGGCGGACAGG 456

RESULT 4
US-08-647-397-1
; Sequence 1, Application US/08647397
; Patent No. 5972702
; GENERAL INFORMATION:
; APPLICANT: Beier, David R.
; APPLICANT: Brady, Kevin P.
; TITLE OF INVENTION: OSTEOCLAST TRANSPORTER
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/647,397
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Gates, Edward R.
; REGISTRATION NUMBER: 31,616
; REFERENCE/DOCKET NUMBER: B0801/7048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-720-3500
; TELEFAX: 617-720-2441
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2102 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 120..1733

US-08-647-397-1

Query Match 6.6%; Score 53.2; DB 2; Length 2102;

Best Local Similarity 56.5%; Pred. No. 3.1e-07; Matches 122; Conservative 0; Mismatches 88; Indels 6; Gaps 1;

QY 293 TTCTTCACTGTAATGGAGCTATCCACAGACAAGTAGGACAGACAGAACTGTGTGG 352
DB 349 TGCACTCTCCAAAGCCAGCTTTCCATGACACCCAGGGGCCACCGACCATGCTTGG 408
QY 353 ATGGCTGGATATATGATCAAGCTACTTCCCTTGACCAATTTGACTAAGTGGACCTGG 412
DB 409 ATGGCTGATCT-----ACAAAGACAGACAGACCAATTTGACAGAGTGGGACTTGG 462
QY 413 TATGATATATCACTGCTAAATCACTGTTCAATTTCTACTTGTGACTGTGATGCTGG 472
DB 463 TATGGGCTCCAAACAACTGAAGAGATGGCACAGTCACTTCACTGGCAGATACTGG 522
QY 473 TGGAGGATCATAGGTGGCCATGTCTCAGACAGGT 508
DB 523 TTGAGAGCTGTGTGGAGAACTGTCAAGACAGGT 558

RESULT 5

US-08-232-463-14/C

Sequence 14, Application US/08232463

Patent No. 5670367

GENERAL INFORMATION:

APPLICANT: DORNER, F.

APPLICANT: SCHEIFLINGER, F.

APPLICANT: FALKNER, F. G.

TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS

NUMBER OF SEQUENCES: 52

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 1800 Diagonal Road, Suite 500

CITY: Alexandria

STATE: VA

COUNTRY: USA

ZIP: 22313-0299

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/232,463

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/935,313

FILING DATE:

APPLICATION NUMBER: EP 91 114 300.6

FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 29,768

REFERENCE/DOCKET NUMBER: 30472/114 IMMU

TELEPHONE: (703)836-9300

TELEFAX: (703)683-4109

TELEX: 899149

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 7218 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

CLONE: pTZgpc-F1s

US-08-232-463-14

Query Match

5.8%; Score 46.6; DB 1; Length 7218;

Best Local Similarity 5.7%; Pred. No. 8.6e-05; Matches 22; Conservative 203; Mismatches 162; Indels 0; Gaps 0;

QY 415 TGTGATATAGTCACATGGAATCAGTGTTCATTTCTACTTCTGACTGATGCTGTG 474
DB 1484 TGTATATACCTATATGACATGTTTAAAGATAGAGATTGTGACRRRRRRRRR 1425
QY 475 GAGGATCATAGTGGCCATGTCTCAGACAGTGGCTGTGGAATCTGCTGGTGTGG 534
DB 1424 RRR 1365
QY 535 ATAATCAACCAATAAATAGATGAGGCTTAAAGCACTTAGAAAAAGTGCAGCAAT 594
DB 1364 RRR 1305
QY 595 GGAATTAAGATGTGAAGAAACCTGAACATAGAGTGTGAAGATCCACATGACAG 654
DB 1304 RRR 1245
QY 655 GAGCTGATGACAGACAGCAAACTACTGTGTGACTGTTCGCAACCCAGATG 714
DB 1244 RRR 1185
QY 715 CGTAAAGCATCTGTATCTGTATTTTGAGAAAAAATCTCAAGAAAGCATAA 774
DB 1184 RRR 1125
QY 775 AATGATTCCTACAGAAAGTGACCAA 801
DB 1124 RRR 1098

RESULT 6

US-08-232-463-14

Sequence 14, Application US/08232463

Patent No. 5670367

GENERAL INFORMATION:

APPLICANT: DORNER, F.

APPLICANT: SCHEIFLINGER, F.

APPLICANT: FALKNER, F. G.

TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS

NUMBER OF SEQUENCES: 52

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 1800 Diagonal Road, Suite 500

CITY: Alexandria

STATE: VA

COUNTRY: USA

ZIP: 22313-0299

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/232,463

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/935,313

FILING DATE:

APPLICATION NUMBER: EP 91 114 300.6

FILING DATE: 26-AUG-1991

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 29,768

REFERENCE/DOCKET NUMBER: 30472/114 IMMU

TELEPHONE: (703)836-9300

TELEFAX: (703)683-4109

TELEX: 899149

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

```

; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZgpt-Fls
US-08-232-463-14

```

Query Match 4.5%; Score 36; DB 1; Length 7218;
Best Local Similarity 6.4%; Pred. No. 0.24;
Matches 18; Conservative 147; Mismatches 117; Indels

[illegible]

RESULT 7

```

US-09-719-083A-1/c
; Sequence 1, Application US/09719083A
; Patent No. 6451568
; GENERAL INFORMATION:
; APPLICANT: McWaster, Christopher R
; APPLICANT: Anette, Henneberry L
; TITLE OF INVENTION: Cloning of a Human
; TITLE OF INVENTION: Choline/ethanol
; TITLE OF INVENTION: Phosphatidylch
; TITLE OF INVENTION: Platelet Activ
; FILE REFERENCE: 84372-203
; CURRENT APPLICATION NUMBER: US/09/719
; CURRENT FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: US60/088,1
; PRIOR FILING DATE: 1999-06-08
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1

```

US-09-719-083A-1
OTHER INFORMATION: Open reading frame encoding hCEP1 peptide

Query Match 4.4%; Score 35.2; DB 4; Length 2051;
Best Local Similarity 53.7%; Pred. No. 0.22;
Matches 73; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

91 TTATATCCCTCATATCTCTAGAGAACTTGTCTGAGCCATTCTGTGTCAPGTTGCTGG 150
QY
1912 TTCTCACAAGATGTTAAGATAGGAACCTTTCAATCCAAATTCGAAGTCTTTATTACTAG 1853
DB
151 GTCCACATCTCGGACAAATAACTCGATCTGGTAATGAAACTCGAATCCCTCAGTGAAGAT 210
QY
1852 TTCCACCTCCCAAGCTAGTGGGATGATCTGTGTACAAGCTGAATTCCTCAGTAAAGAA 1793
DB

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1

LENGTH: 8743

TYPE: DNA

ORGANISM: Rupestris stem pitting associated virus

US-09-707-780-1

Query Match 4.1%; Score 33.2; DB 4; Length 8743;
Best Local Similarity 50.0%; Pred. No. 2.2;
Matches 83; Conservative 0; Mismatches 83; Indels 0; Gaps 0;

QY 559 GGCTTAAGGCACTTAGAAAAAGTTGACGACCAATGGAATAAAGAAATGCTGAAGAAACC 618

Db 7764 GGCTGAATGGAAGTCAAAATGGGAATCTCCCGGTGAATCAATGAGGCTTTGAAGCC 7823

QY 619 CTGACATAGAGTTGTAAGATCCACATGACAGGAGGAGCTGGATGCAGACAGACCAAA 678

Db 7824 CGGCTAAATCGCTGGAGTTAGCTAGAGCTCAAAAGCAGCCGAGGTTCTAATGACCA 7883

QY 679 ACTACTGTGTGACTTTGTTCCGCAACCCCAAGTATCGTAAAGGA 724

Db 7884 CTTACTCTCAGTGCATCTTTCGCAACGCAAGAGGATTATAGAGA 7929

RESULT 12

US-08-658-665-178

Sequence 178, Application US/08658665

Patent No. 5997878

GENERAL INFORMATION:

APPLICANT: Paoletti, Enzo

APPLICANT: Pincus, Steven E.

APPLICANT: Cox, William I.

APPLICANT: Kauffman, Elizabeth K.

TITLE OF INVENTION: Recombinant Poxvirus - Cytomegalovirus,

TITLE OF INVENTION: Compositions and Uses

NUMBER OF SEQUENCES: 190

CORRESPONDENCE ADDRESS:

ADDRESSEE: Curtis, Morris & Safford, P.C.

STREET: 530 Fifth Avenue

CITY: New York

STATE: New York

COUNTRY: United States of America

ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/658,665

FILING DATE: 05-JUN-1996

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

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REFERENCE/DOCKET NUMBER: 454310-2720.1

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INFORMATION FOR SEQ ID NO: 178:

SEQUENCE CHARACTERISTICS:

LENGTH: 5798 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-658-665-178

Query Match

Best Local Similarity 4.0%; Score 32.4; DB 2; Length 5798;

Mismatches 122; Conservative 0; Mismatches 131; Indels 1; Gaps 1;

QY 548 AACTAGATGAGGCTTAAAGGCACTTAGAAAAGTTGCACGACCAATGGAATAAAGAAATG 607

Db 1904 AATTGGTAGACAGAAAAATATTATCTAAACACAGATAGTCTTAAACAGAAATAGAGATTA 1963

QY 608 CTGAAGAAACCCCTGAACATAGAGGTTGTAAGATCCACCATGCAGGAGGAGCTGGATGCGAG 667

Db 1964 AGAAGATTAGTAAACGAATTAATGAAATACCAATGTTTCGAAGATATAATGACTA 2023

QY 668 CACAGACCAAACTACTGTGTGACTTGTCCGCAACCCCAAGTATCGTAAAAAGGATCT 727

Db 2024 TACCTACCATGATCCCTATGAGATA-TTTTTTAAACCGGTACTTAAGAGAAAAAGTATCT 2082

QY 728 GTATCTCTGTATTTTTCAGAAAAAAATCTCAAGGAAAAAGGCATAAAAATGATTGTCTACA 787

Db 2083 AAAGCTGTAGATTTTTCAGAAATGGATATTAAGGGAGATGATATTAGCAAAATCGGAATA 2142

QY 788 CAAAAGTGACCAAA 801

Db 2143 AACACGGGAGAAA 2156

RESULT 13

US-08-796-101-39

Sequence 39, Application US/08796101

Patent No. 6183752

GENERAL INFORMATION:

APPLICANT: EPSTEIN, STEPHEN E.

APPLICANT: FINKEL, TOREN

APPLICANT: SPEIR, EDITH

APPLICANT: ZHOU, YI FU

APPLICANT: ZHU, JIANHUI

APPLICANT: ERDILE, LORNE

APPLICANT: PINCUS, STEVEN

TITLE OF INVENTION: RESTENOSIS/ATHEROSCLEROSIS DIAGNOSIS,

TITLE OF INVENTION: PROPHYLAXIS AND THERAPY

NUMBER OF SEQUENCES: 184

CORRESPONDENCE ADDRESS:

ADDRESSEE: CURTIS, MORRIS & SAFFORD, P.C.

STREET: 530 FIFTH AVENUE

CITY: NEW YORK

STATE: NY

COUNTRY: USA

ZIP: 10036

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/796,101

FILING DATE: 05-FEB-1997

CLASSIFICATION: 424

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INFORMATION FOR SEQ ID NO: 39:

SEQUENCE CHARACTERISTICS:

LENGTH: 5798 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

US-08-796-101-39

Query Match

Best Local Similarity 4.0%; Score 32.4; DB 4; Length 5798;

Mismatches 122; Conservative 0; Mismatches 131; Indels 1; Gaps 1;

QY 548 AACTAGATGAGGCTTAAAGGCACTTAGAAAAGTTGCACGACCAATGGAATAAAGAAATG 607

Db 1904 AATTGGTAGACAGAAAAATATTATCTAAACACAGATAGTCTTAAACAGAAATAGAGATTA 1963

Qy 463 GGATGCTGGTGG 476
| | | | | | | | | |
Db 1649 TGAATGCTGAGTGG 1662

Search completed: January 6, 2003, 22:45:13
Job time : 60.3264 secs